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Montanan



BRAIN TRUST

Exploring the
Brain from
All Angles

**True
Trailblazer**

Renée Haugerud '80

SPRING 2014

VOLUME 31 // NUMBER 2

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PHOTO BY TODD GOODRICH

CONTENTS

ON THE COVER:

UM's new Brain Initiative bridges the work of University educators and researchers in the areas of neuroscience, performing arts, education, and beyond to better understand the brain.

ILLUSTRATION BY BOB BLUY

DEPARTMENTS

- 3 Letters
- 5 Around The Oval
- 29 Raising Montana
- 31 About Alumni
- 52 Artifacts



PLEASE RECYCLE YOUR MONTANAN



16

Jillian Campana, head of UM's acting and directing departments, works with a group of students preparing for a production of *A Midsummer Night's Dream*. Campana brings a unique perspective to UM's new Brain Initiative, as one of her specialties is designing theater workshops for people with traumatic or acquired brain injuries.



MONTANAN ONLINE:

Be sure to visit montanan.umt.edu for an extended Facetime Q&A with Montana Lieutenant Governor Angela McLean, more photos, and exclusive content.

FEATURES

14

Extended Learning

BESS PALLARES '09
UM's MOLLI program breathes new life into continuing education.

16

Think Tank

JACOB BAYNHAM '07
New Brain Initiative puts professors' heads together to explore what's inside them.

20

A True Trailblazer

NATE SCHWEBER '01
Renée Haugerud '80 turns lessons learned at UM into unique success on Wall Street.

24

Native Knowledge

ERIKA FREDRICKSON '99, M.S. '09
UM program inspires future generation of Native American scientists.

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at the University of Montana?

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NAMES TRANSPOSED

I have enjoyed the *Montanan* for years and am always excited when I see it in my mailbox. It really keeps me involved with what is happening at the University of Montana.

I did notice a small flaw in the [winter 2014] About Alumni section. The names of Bob Holton and Steve Sanders were reversed on the photos.

Ok, so I'm picky. Someone once told me nothing is 100 percent, so if that is the only "oops," all is well.

GLENN M. CHAFFIN JR. '55
Corvallis, Ore.

(Editor's note: Indeed, the names were transposed. The *Montanan* regrets the error.)



Bob Holton



Steve Sanders

DIVERSE EDUCATION, DIVERSE IDEALS

After reading the two letters to the editor in the winter 2014 *Montanan*, I had to respond. The cover of the fall 2013 *Montanan* and the related article [It's a Jeep Thing] were fantastic. UM provides a diverse education to a diverse student body. The *Montanan* celebrates that diversity by representing the many different disciplines taught at UM.

Unfortunately, there are always those who will only see the world through the narrow lens of their own idealism. For anyone to refer to Mount Sentinel as an "undisturbed grass hillside" only shows they have never hiked there to witness the many trails used by both humans and animals alike, nor the very obvious fire road that has been there for decades. The wonderful environment we have in the Northwest was created by God for us to enjoy responsibly. Most owners of Jeeps and other off-road vehicles use them responsibly to enjoy the outdoors without tearing up the hillsides. Loved the article; love the publication. Keep up the good work!

DAVID RISDON '93, M.A. '94
Post Falls, Idaho



WHERE'S YOUR GRIZ BEEN?

KIERSTEN WESTBROOK '09 dons her Griz gear at the Cascades d'Ouzoud in the Atlas Mountains of Morocco. Named for the Berber word for "olive," they fall 100 meters into the river below and are the water source for the Barbary apes—a type of macaque—that live nearby. "I've traveled extensively since graduating from UM, and no place has ever had quite as large of an impact on me as Morocco," she says. "Of course, I always take my Griz gear with me. The world is full of Griz fans!" *Congratulations, Kiersten.*

You have won a \$50 gift card for The Bookstore at UM.

Do you have a photo of yourself wearing Griz gear in an amazing place or while on an incredible adventure? If so, send it along with a brief description to themontanan@umontana.edu. Winners will see their photo published in the *Montanan* and will receive a \$50 gift card to The Bookstore at UM. To be considered, photos must be in focus with the UM or Griz logo clearly visible.

WANTED: YOUR OPINIONS

The *Montanan* welcomes letters to the editor. Please sign and include your graduating year or years of attendance, home address, and phone number or e-mail address.

Send them to:
Montanan Editor,
325 Brantly Hall,
Missoula, MT 59812
or
themontanan@umontana.edu.

Because of space limitations, we are not able to include all letters sent to us. Letters may be edited for length or clarity. While universities are places of discussion where good people do not always agree, letters deemed potentially libelous or that malign a person or group will not be published. Opinions expressed in the *Montanan* do not necessarily reflect those of the University of Montana.

The *Montanan* would like to thank the following readers for recently donating to the magazine:

Charles D. Branch, Douglas Grimm, Michael T. Heine, Richard Curdy, William Larson, Josh Clark, Steven Lobdell, Herman Lynn Reese, Ervin Davis, Alice Wright, Leslie Boothroyd, George McElhinney and Suzanne Repasky, Elaine Howard, Roger Arnston, Morris B. Peters, Tami Bishop Rhodes, George Cole, Karla Kaleva, Dr. Gerald Madler, William J. Ellison, Denae Frieling, Constance W. Baker, Ethel Byrnes, Robert W. Squires, Thomas J. Zakos, and Debra Pratum.

AROUND THE OVAL

TAKING CARE OF BUSINESS

New Blackstone LaunchPad Boosts Entrepreneurial Spirit of Students, Alumni

Matt Gangloff has an idea for a business. It's called New Leaf Environmental Monitoring, and its goal is to apply high-technology concepts to environmental issues. The product is designed to monitor chemical toxins in and around the home, specifically focusing on people who live near natural gas wells and the myriad problems they face.

Gangloff, a senior studying management information systems at UM's School of Business Administration, and his partner, Andrew Burrington, put the idea to the test at the Fall Business Plan Competition this past December. They presented their plan to a panel of experts, and they ended up winning the grand prize.

"That got me thinking that, 'Wow, this is actually possible,'" Gangloff says. "But I didn't really know how to pursue it. I had an idea for what I wanted to do, but I didn't know how to take those sequential steps."

Enter Blackstone LaunchPad, a new program designed to help UM students—and alumni—precisely in Gangloff's predicament.

UM's Blackstone LaunchPad, which had its grand opening in February, helps entrepreneurs jumpstart their own businesses. A \$2 million grant announced last summer established a partnership among UM, Montana State University, and Headwaters RC&D in Butte to introduce entrepreneurship as a viable career option. It also provides students with a network of venture coaches and entrepreneurial support to transform new ideas into sustainable companies.

The timing couldn't have been better for Gangloff.

"Here I am, nine months after I came up with the idea, having a business that has gone from zero to sixty because of this program," he says.

The program is directed by Paul Gladen, an entrepreneur and co-founder of the Hellgate Venture Network.

In his first couple of months on the job, Gladen has been pleased with the interest in the program. He says about seventy students and alumni registered with LaunchPad, and about thirty actual business ventures have been submitted.

"In the early stages, our biggest challenge is getting the word out that LaunchPad is open to all students," says Gladen, who hails from the United Kingdom. "We not only want to pick up those people who say, 'This program is perfect. I want to start my own business. I have this great idea for a product, and it sounds like these guys can help me,' but additionally, we want to help those students who have never considered starting their own business as a viable option and turn on that light bulb."

Beyond students, LaunchPad also is open to UM alumni, and there are a couple of ways to get involved. First, alumni can use LaunchPad if they have a business idea they'd like to pursue. The other way is to help students tap into the knowledge, expertise, and relationships that alumni can offer.

"A lot of building a business in many ways is about networking," Gladen says. "It's who you know or who can help open some doors. It can also be about finding someone with specific

skills, either to be a part of that team or just offer some advice or make an introduction."

The LaunchPad office, located in the University Center, has a definite startup vibe to it. Lime green paint covers one wall, while floor-to-ceiling windows make up the others. There are stand-up workstations and colorful bean-bag chairs. The setting gives the program high visibility in a high-traffic area to reinforce the idea that it's open to all students.

"This goes beyond just business school students, whose domain of expertise is in the technicalities of business: finance, strategy, marketing, technology. Often they don't necessarily have the experience or knowledge around a specific product or service area," Gladen says. "So I think if we team them up with people coming from forestry or drama or physics, we're going to get that combination I think is going to create not only more innovative, creative businesses, but also more complementary skill sets that will increase the chances that those businesses will succeed."

"But at the end of the day, if you're going to be an entrepreneur, you've got to be the type to get up and go and make stuff happen. If we can help you make that happen a little more easily and a little more quickly, that's what we're here to do."

To learn more about UM's Blackstone LaunchPad, visit www.umt.edu/initiatives/launchpad or e-mail Gladen at paul.gladen@umontana.edu.

UM Blackstone LaunchPad Director Paul Gladen speaks with the media during the program's grand opening in February.





CONFIDENCE. SKILLS. CAREER.

Montana novelist Ivan Doig once said Norma Beatty Ashby's "sparkle lit up every interview."

For 26 years, we woke up with Ashby on the "Today in Montana" television show. She credits her success to the great start she got at UM.

"My degree gave me confidence and skills and was the starting point of a wonderful, gratifying career," she says.

Now Ashby is paying it forward with a scholarship for broadcast journalism students, funded through a planned estate gift.

"I want to be part of supporting future journalists as they embark on their own journeys."

You too can leave a legacy at UM. Consider including a gift to the UM Foundation in your will or living trust. Call us at 800.443.2593.

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 UNIVERSITY OF
MONTANA
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THE PRESIDENT'S PERSPECTIVE:

GREETINGS!

Our University was chartered in 1893 as Montana's liberal arts-based institution of higher learning to provide education, research, and outreach to the state and nation. That means in today's fast-paced world, in which our economy and quality of life are driven in significant ways by our colleges and universities, we at UM have the responsibility to examine our offerings on an ongoing basis. We must make sure we are addressing areas important to our heritage and to our future.



In all areas of education at UM, the fundamental principles of a strong liberal arts education—critical thinking, communication skills, a combination of depth and breadth of study—are solidly in place. We strive to equip all of our graduates—not just those with a major in a liberal arts program—with the tools they need to become leaders and high achievers.

The cover story for this issue of the *Montanan* is about the Brain Initiative—a new collaboration at UM that brings scientists, artists, students, and researchers together. It's an illustration of the innovative thinking about highly important topics that our faculty does on a daily basis.

A total of thirty-three faculty and staff members at UM conduct research and education that contribute to the Brain Initiative. Some are looking for biomarker molecules that will show evidence of traumatic brain injury from sports, while others are striving to help veterans through the work of a newly approved Neural Injury Center. Researchers are studying speech loss and recovery; still others work on the connection between storytelling and the brain. Last summer, we opened the new downtown location of spectrUM Discovery Area, our interactive youth science museum, which has its own exhibit on the human brain.

Think of the power of discovery when we bring all these creative people together! That's the kind of inspiration the Brain Initiative provides. And that's the inspiration our founders had in mind at the beginning of the University of Montana.

Let me end with a quote from Reed Humphrey, chair of the School of Physical Therapy and Rehabilitation Science. Speaking about the interaction fostered by the Brain Initiative, Reed says, "That it occurs on a campus with a long tradition of liberal arts is fortuitous, considering that the brain has right and left hemispheres."

Enjoy discovering more about the brain, and about the University of Montana, with this issue.

Go Griz!

Royce C. Engstrom

Royce C. Engstrom, President

Notable & Quotable

A team of UM students recently won the **International Intercollegiate Ethics Bowl** after competing against undergraduate students from thirty-two different universities. Students **Hayden Hooker** and **Joel Johnson** both are seniors studying philosophy; **Alan Rolph** is a senior studying political science and journalism; and team coach **Neil Bennett** is a graduate student pursuing a master's in economics. Though it is common for Ethics Bowl teams to have a philosophy professor for a coach and to prepare for the competition through a credited course, the UM team prepared on its own outside of class. During November and December, the team advanced through regional competitions, and they won the final competition on February 27 in Jacksonville, Fla.

After receiving approval from the Montana Board of Regents in January, UM's College of Arts and Sciences officially changed its name to the **College of Humanities and Sciences**. "It better reflects who we are," says **Chris Comer**, dean of the college. "There are universities that are currently shying away from the humanities. We would rather hoist the flag of humanism and be proud of it." The college also is taking steps to launch a new **Humanities Institute**. Currently in the planning stage, the institute promises to stimulate research and support scholarships directed toward the humanities on campus. Comer notes that the new name is meant to more accurately portray the identities of the college's departments and programs and does not indicate a shift in academic focus. "We are still located in the Liberal Arts Building," Comer says. "And we still identify as the home of the liberal arts. We're also one of the shining spots of the humanities in Montana, and we wanted the name of the college to reflect that."

Scientists and students studying at the subnanometer level can rejoice: UM has purchased a **single-crystal X-ray diffractometer** valued at \$515,000. The device is the only small-molecule diffractometer in Montana and this part of the Rocky Mountain West. "This is a state-of-the-art instrument," says **Orion Berryman**, a **UM assistant professor of chemistry**. "We are really excited to have it here." Berryman says the diffractometer measures tiny crystal samples to determine composition at atomic resolution. This tells scientists what the crystals are made of and how the atoms are arranged. The device produces 3-D maps that illustrate the locations and composition of atoms within the sample. Berryman wants to spread the word that the device is now available to chemists, geoscientists, pharmacy researchers, biologists, and others. "It is intended to be an intercollegiate instrument," Berryman says. "We hope to have students from UM, Montana State, and elsewhere using it."

GRIZZLY SCHOLARSHIP ASSOCIATION

Providing scholarships for UM student-athletes

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A League of Their Own

New Grizzly softball team to take field next year

THE BATS, BALLS, AND HELMETS HAVE ARRIVED.

The uniforms are en route. A field is in the works. Come this time next year, a new breed of bear will take the field to represent UM Athletics.

Led by coach Jamie Pinkerton, the Montana Grizzlies softball team will embark on its inaugural season in February 2015 in a tournament at New Mexico State University.

"The reality probably won't hit me until that first pitch is thrown," Pinkerton says from his Adams Center office. "It's an exciting time for the University of Montana."

Hired in August, Pinkerton hit the ground running. The first order of business, obviously, was finding some players. He was able to land six by November, and despite getting a late start, he was more than pleased with his first group of signees. His goal now is to balance out the roster with some players from the junior college ranks, and he'll recruit Montana hard during the spring high school season. An open try-out for current UM students also was held in April.

With twenty years of Division I softball experience, Pinkerton knows the importance of having in-state players on his squad.

"We definitely want Montanans on the team if they are D-I caliber," he says. "In-state kids already have Montana pride, and a lot of them know the Griz tradition. And every kid in Montana is going to want to come here because we are the only D-I program. So I want Montana kids. Anywhere I've been, in-state kids have been pretty feverish about their school. At the same time, they've got to be able to play at a high level. If they are out there, and they can play, the Griz program wants them."

Along with recruiting, Pinkerton and the athletic department have had to do all the other things that come along with building a program from the ground up. Getting his office set up, ordering equipment, hiring an assistant coach, scheduling, and budgeting are all pieces of the puzzle.

"It's been a lot of fun, but it's been kind of like drinking water through a fire hose," Pinkerton says. "There are a lot of moving parts. But that's why I came here. It was intriguing."

Pinkerton has a vast softball résumé, including head-coaching stops at the University of Tulsa and the University of Arkansas. Most recently, he was an assistant at Iowa State University. He was chosen for the UM job from a pool of nearly 100 applicants.

The Griz softball program got its start in May 2011 when the Montana Board of Regents approved an increased student athletic fee to help UM remain in compliance with Title IX gender-equity metrics.



The increase was not written specifically for the addition of a women's softball program, but because of the rise in popularity of the sport at the prep level in the state and in the region, it was the logical choice to become UM's fifteenth intercollegiate sport and ninth women's program.

The Grizzlies will compete in the Big Sky Conference, which formed as a softball league in 2013. The team will host its first conference game on March 21, 2015, against Idaho State University.

Exactly where that game will take place has yet to be determined. Plans are in the initial stages for a softball complex at South Campus, which would put the field alongside the track and soccer facilities. It's doubtful a field will be constructed in time, so the Grizzlies likely will play at a local high school or a Missoula Parks and Recreation field.

Pinkerton clearly is thrilled to lead the Griz program.

"It's truly an honor to be entrusted with building the program," he says. "And I don't take it lightly. I get to draw out the plan, have my fingerprints on it, and build it with the help of everyone in the athletic department. I've taken great pride in the jobs I've done in the past. But when the day comes that I'm not coaching anymore, I'd like to be able to look back and say, 'Hey, the Grizzlies are looking pretty good, and I helped build that program.' Hopefully we'll be competing for Big Sky championships and NCAA bids every season."

\$11 Million Gift Provides Scholarships for UM Students

A 1953 UM alumnus recently committed \$11 million of his estate for academic scholarships at UM, the largest pledge for scholarships in the history of the University. President Royce Engstrom announced the gift in March at a reception for alumni in the San Francisco Bay Area.

Tom Cotter, of Palo Alto, Calif., is retired from a successful career in the investment field. The gift is a big show of support for UM's Investing in Student Success Initiative, launched by Engstrom this past summer.

"This is an incredible step toward providing resources for Montana high school students who wish to pursue a degree at UM," Engstrom says. "It is such a generous gift, and one that dramatically influences UM's ability to recruit and support Montana high school students. Tom Cotter and his family will forever change the lives of many people through this generosity and foresight."

Cotter, who grew up on a ranch near Townsend, earned a bachelor's degree in 1953 and a master's in 1955, both in sociology. He then served as a special agent in the Army Counterintelligence Corps for two years, before moving to Seattle, where he worked for Boeing Co. for nine years in human resources.

Cotter decided to try his hand at financial planning on the weekends. He liked the work and decided to make a career of it, joining Merrill Lynch in 1965. Eventually he joined the investment firm that would become Franklin Templeton, retiring after twenty years.

After trailblazing new markets in the investment industry, his family settled in Palo Alto, Calif., where Tom and his wife, Neva, still reside today. Their daughter, Mary Ann, followed in her father's footsteps by attending UM. Mary Ann graduated in 1995 and is a member of the UM Foundation President's Club.

At age eighty-four, Tom enjoys alpine skiing and volunteer work. He also stays involved with the Cotter Charitable Foundation, through which the family makes grants to at least fifty different entities annually.

"I could have never made it without my education, and I want to see if I can help upgrade the situations of students who want the chance to learn," he says. "I have such a love for Montana and the University, and have always felt that students could be very good recipients of my money."

UM received two other generous gifts this past semester.

In early March, **Earle Layser '65** committed \$1.5 million of his estate to the College of Forestry and Conservation. The gift from Layser and his late wife, Pattie, of Alta, Wyo., will endow a professorship in conservation biology and policy.

The position will be called the Earle and Pattie Layser Endowed Distinguished Professorship in Conservation Biology and Policy. It will increase the number of existing or planned endowed faculty positions in the college to four.

Layser, who spent his childhood in rural Pennsylvania, graduated from the School of Forestry in 1965. Pattie grew up in Memphis, Tenn.

Together, the couple traveled the world, but their home always was the Northern Rockies.

"We were exceptionally fortunate to visit and write about some of Earth's beautiful, wild, and biologically unique places," Layser says. "But in the process, we witnessed firsthand humankind's sobering worldwide assault on natural places and wildlife. Perhaps, within that same landscape, we can also be leaders in demonstrating to the world how,

in the future, to live in ecological and sustainable harmony with our wildlands and wildlife. It is toward that goal that Pattie and I are making this gift."

In February, UM's School of Law announced the largest outright gift in its history from **Alexander "Zander" Blewett III and his wife, Andy**, of Great Falls.

The \$800,000 gift will create the Blewett Scholars Fund, providing three scholarships to incoming students who first have earned bachelor's degrees from Montana State University in Bozeman. Each scholarship will pay for half of the recipients' School of Law tuition and be renewable for the duration of the three-year program.

"My father graduated from the University and had a storied career as a trial lawyer," Blewett says. "Now my sons have also graduated from UM and follow in the family tradition. We've all been so fortunate to acquire these skills at the University of Montana School of Law. The quality of the program, starting with the faculty, truly prepares its students in trial tactics and appellate arguments—our law school experiences have been instrumental to the successful careers we've been able to develop."

"I hope these scholarships will provide more incentive for the next generation of MSU students to obtain the quality of education that the School of Law provides."

The UM Foundation expects this to

be a record-breaking year.

As of April 21, donations

totaled \$36.2 MILLION.

The previous record for one year

was \$36.9 MILLION in 2007-08.

**THE
BOTTOM
LINE:**

1:

Summer internship earned by Missoula College culinary arts student William Gervais at the famed Chez Panisse in Berkeley, Calif.

Top 100:

UM's ranking on the Best U.S. Colleges and Universities list by *The Best Schools*

Nifty Fifty

Missoula Technology and Development Center, HHP celebrate half-century of partnership

It's been a long and fruitful half-century for the Missoula Technology and Development Center and the Department of Health and Human Performance at UM. This year marks the fiftieth anniversary of this groundbreaking partnership and the start of what looks to be another fifty years of pioneering research and service performed by the U.S. Forest Service and UM.

In the late 1950s, the Aerial Fire Depot in Missoula began working on equipment for smoke jumping and air cargo. This led to the development of the Missoula Technology and Development Center. Later in the 1960s, recognizing the importance of the interaction between humans and their often life-saving equipment, MTDC set about establishing a working relationship with UM's HHP department. This union fit seamlessly with the work being done at that time in UM's Human Performance Laboratory.

Since 1964, the MTDC has maintained a cooperative agreement with UM, which provides cost-effective, evidence-based studies to solve equipment, health, and safety problems for wildland firefighters and other wilderness management and Forest Service professionals. During the ensuing years, researchers at the Human Performance Laboratory, beginning with Brian Sharkey and later including Steve Gaskill, Brent Ruby, Charlie Palmer, Chuck Dumke, Matt Bundle, and other faculty, continue to collaborate closely with the needs of MTDC and the wildland firefighting community. The circle of contributing UM researchers has expanded in recent years and now includes people from several departments.

"The collaboration between MTDC and the University should be the model

for how partnerships are completed," says Joe Domitrovich, physiologist at the MTDC. "This partnership has allowed critical work to be completed that has assisted in scientifically based solutions to the health and safety hazards of not just U.S. wildland firefighters, but wildland firefighters across the world."

The partnership has continued to grow in strength and size, resulting in many well-recognized and well-established projects, research, grants, and labs. One such lab, run by Ruby, is the Montana Center of Work Physiology and Exercise Metabolism. This high-tech, \$1.5 million facility came out of a U.S. Air Force grant but was facilitated through the MTDC partnership and the work being done with wildland firefighters. The center officially was recognized by the Montana Board of Regents in 2007 and continues to work with federal agencies and grants.

"Our research models using wildland firefighters offer an unmatched physiological model that parallels the physical demands of the modern warfighter," Ruby says. "It is important to me to consistently take our latest findings back to crews and the fire agencies to help assist them in policy change as needed. Wildland firefighters don't necessarily read our research papers. For this reason, it is important to us to package our research findings into products that they will pay attention to."

Significant research has come from the groundwork laid by the collaboration.



Energy expenditure and fatigue of wildland firefighters, tool design, human-powered equipment carrier efficiency, heat stress, sleep in firecamps, overhead team stress, and other topics have led to increased safety and well-being for the men and women who put their lives at risk to keep our wildlands ecologically sound.

Current projects forged by this partnership include stress and coping in wildland fire dispatchers, fitness testing of wildland fire hotshot crews, development of new fitness standards for smoke jumpers and hotshots, and evaluation of cognitive function and markers of pulmonary and cardiovascular stress following exposure to smoke.

"I am encouraged that the cooperative research agreement started fifty years ago will continue to provide cost-effective, data-based answers to problems associated with wildland firefighting, and that MTDC personnel and UM researchers—and graduate students—will expand research and development activities under what Senator Mike Mansfield once called a unique project," Sharkey says.

MTDC employee Cliff Blake, right, is a subject during a study of the demands of wildland firefighting in 1965.

14: Individuals nationwide honored by the White House as Champions of Change, including UM student Tristan Persico, who was recognized for his work conserving Montana wilderness and helping his fellow veterans readjust to civilian life

37: Number of Udall Scholars UM has produced, with sophomore Hope Radford winning the most recent honor

Washington Foundation Provides \$2.4 Million for Statewide Online College-Prep Curriculum

FULLY 28 PERCENT OF STUDENTS

arrive on Montana college campuses needing remedial courses. In response, the Dennis and Phyllis Washington Foundation made a \$2.4 million gift to the Montana Digital Academy at UM to launch a statewide project designed to help students avoid remedial coursework when they attend college.

During the next three years, the Montana Digital Academy will test EdReady, a curriculum from the National Repository of Online Courses that was funded by the Bill and Melinda Gates Foundation. The Washington Foundation gift will allow Montana students to be the first in the nation to use the curriculum statewide. It is intended to help students boost their scores on commonly used placement exams so they can begin their postsecondary education without remedial help.

"Dennis and Phyllis Washington are pleased to complement the efforts of Bill and Melinda Gates to advance the first implementation of EdReady in the nation," says Mike Halligan, executive director of the Dennis and Phyllis Washington Foundation. "The Washingtons believe that Montana's

children must achieve at higher levels if they are to fulfill their own dreams and strengthen America. EdReady will provide students with the resources to accomplish their goals."

The Washington Foundation gift comes after a successful pilot project at UM this past summer. In that project, 86 percent of participating students who needed math help increased their test scores and qualified to enroll in higher-level courses.

"Some students who enroll in college have a significant gap from the last time they took a math class in high school to the time they arrive on campus," says Denise Juneau, state superintendent of public instruction. "EdReady is a promising tool that we can use to help get those students up to speed, keeping them out of remedial courses and on track for college graduation."

The Montana Digital Academy, UM Department of Mathematical Sciences, and UM Office for Student Success collaborated on the EdReady pilot project, which involved sixty students who completed the math curriculum remotely. Additionally, forty-one students were able to avoid taking forty-

nine remedial courses, totaling 151 credit hours that potentially would have cost those students about \$30,000 in tuition and fees.

Robert Currie, executive director of the Montana Digital Academy, says a majority of the students were able to reach their target score with fewer than sixteen hours of focused use of EdReady, versus an entire semester for most remedial courses.

"This game-changing system will help our students enter college more prepared, while saving them money and helping them earn their degree on time," Governor Steve Bullock says. "Montana is leading the nation when it comes to innovative approaches to improving college and career readiness."

The Montana Digital Academy is part of the state's K-12 system and works with school districts to expand educational offerings with a mix of core and elective courses, including online college-prep courses. Statewide field testing of EdReady began this spring, with results expected in 2015. Initially, the EdReady curriculum will focus on improving math placement scores, with English to be added in 2015.



UM Student Wins Prestigious Truman Scholarship

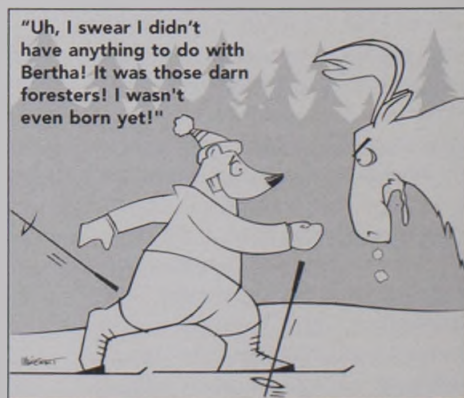
UM student Mara Menahan recently won a Truman Scholarship, a prestigious national award that provides top U.S. university student leaders up to \$30,000 for graduate or professional school.

Truman Scholars are selected on the basis of leadership achievements and potential in public service. Menahan, a Davidson Honors College student who majors in environmental studies and geography with minors in climate change studies and wilderness studies, is the University's fourteenth Truman Scholar.

Fifty-nine students were selected as 2014 Truman Scholars out of 655 candidates from nearly 300 colleges and universities. On top of the \$30,000 scholarship, Truman Scholars receive priority admission and supplemental financial aid at some premier graduate institutions, as well as leadership training, career and graduate school counseling, and internship opportunities with the federal government.

Menahan is a graduate of Helena High School and the daughter of Mike Menahan and Stacy Tureck of Helena. She plans to fight climate change by addressing urban sprawl through the open-space planning process.

Menahan's passionate and professional leadership in a variety of campus and community activities helped her achieve the award. She has been a leader at the UM FLAT—Forum for Living with Appropriate Technology; served as the only undergraduate on the university's delegation to the UN 2013 Climate Change Conference in Warsaw, Poland; participated in the Bhutan Ride for Climate, served as a moderator for the Community Climate Summit; completed an internship with Montana Audubon to develop visual communication tools to explain the hazards of climate change to the bird population; and interned as a wilderness ranger with the Selway-Bitterroot Frank Church Foundation. She also served as vice president and women's captain of the UM Cycling Team.



Meet Grizwald,

the University of Montana's cartoon bear. In the winter 2014 *Montanan*, we asked readers to submit captions interpreting Grizwald's actions in a humorous way. This issue's winning caption was sent in by **NETTIE POWERS TRAXLER '19** of Helena. Congratulations, Nettie, you've won a Griz stadium blanket.

Stay tuned! In an upcoming issue of the *Montanan*, a new cartoon featuring Grizwald will need a caption. You could be the next winner!



FACETIME:

ANGELA MCLEAN M.ED. '00

One day she was a teacher at Anaconda High School. The next, Angela McLean became the lieutenant governor of Montana.

McLean, who earned her master's degree in curriculum and instruction from UM in 2000, has been an educator for twenty years. She served on the Montana Board of Public Education. She's been a member of the Board of Regents, most recently serving as its chairwoman. A unique chain of events opened the door for McLean's latest opportunity. President Barack Obama chose Montana Senator Max Baucus as the U.S. ambassador to China, leaving his Senate seat open. Once Baucus' new role was confirmed, Montana Governor Steve Bullock tabbed his lieutenant governor, John Walsh, to replace Baucus in Washington, D.C. That left a vacancy in the lieutenant governor's office, and Bullock sought McLean for the job.

In her first interview as Montana's lieutenant governor, McLean stopped by the Montanan office in February to talk about her new gig, teaching, and meeting former U.S. Supreme Court Justice Sandra Day O'Connor, among other topics.

Can you tell us how you got this position?

Was it something that you were interested

in? I can tell you that since I was a high school student I've been interested in politics, and I actually served as a legislative page for State Representative Robert Hoffman from down in the Ruby Valley. When this particular position looked like it might be shaking out, it wasn't really anything I had thought about or considered. So when Governor Bullock approached me about giving it consideration, I was very humbled and very surprised.

Who did you tell first? My husband, Mike [a 1997 UM School of Law graduate]. And he's pretty excited. He now proudly calls himself the Second Dude.

Was it an easy choice to accept this position? The acceptance of the position was very easy. I've dedicated my career in service to Montana students, and I recognized that the transition to this role

meant that I would be able to dedicate the next few years of my career in service to all Montanans, which was an opportunity that was very exciting and brand new.

What does the lieutenant governor do? What are some of your responsibilities?

This was part of the conversation that the governor and I had. I told him that I think this position was one that really leant itself to be molded by the person who held it. I indicated to him that I wanted to be at the table when policy was shaped. I told him that I wanted to be a part of the decision making, and that if he saw fit, I'd like to be the liaison or the ambassador for one or two initiatives. I don't want to be a fly on the wall. I want to be somebody who rolls up her sleeves and has a meaningful voice and a seat at the table, because I think that's what Montanans are expecting, and that's what I need to provide for all of them.

This seems like a big jump into politics. Can you talk about this leap? This is an entirely big jump into politics. I went from being a classroom teacher on Friday to being the lieutenant governor on Monday. I'll tell you that I was considering, perhaps, a run for superintendent of public instruction in 2016. Statewide offices were something that I considered, and I did, perhaps, see myself in one of those seats. I can't honestly say that lieutenant governor is one of those seats, although I feel entirely blessed that it is where I'm at today. When the governor approached me about the position, it was an opportunity I couldn't pass up, and I am very excited about it. I feel like the governor has a great agenda that's going to serve middle-class Montanans, and I think that I provide a good voice for the advocacy of all the folks, of all the workers, of all the students across the state. While this may not have been the one office I had identified myself with initially, I think this is the one that God wanted me to have right now.

This past fall you got to bring a group of Anaconda High School students to UM to meet with former U.S. Supreme Court Justice Sandra Day O'Connor. What was that experience like? That was an incredible opportunity getting to meet Justice O'Connor. More importantly, I think getting to see my students meet Justice O'Connor was pretty darn powerful. Not every student can say they've met a former justice from the United States Supreme Court. What was equally exciting that day was that the students got to present a little bit about their history in Anaconda and campaign finance law, and how campaign finance law in Montana was shaped by what happened in Anaconda. And they understood it. They could make meaning of that for folks who weren't aware of the history. And I hope they made meaning of that history to Justice O'Connor because it's interesting to them and to all of the folks of the Anaconda-Deer Lodge Valley. So that was a real highlight.

To read the full interview, visit montanan.umd.edu.

MOLLI students act out a scene as a washing machine during the Improvisation: A Great Anti-Aging Device! course taught by Margaret Johnson in the James E. Todd Building at UM.



instructors, students, or both. Marci Valeo, chair of the council's membership and marketing committee, has been involved with the program since 2008.

"I was drawn by friends and word of mouth," Valeo says. "It was a different kind of educational opportunity with no tests, no grades, and really optional homework, which was appealing."

Valeo and many others in Missoula have embraced MOLLI's offering of education for education's sake. Without the pressure of tests, members are free to explore different topics and take risks in learning.

"We're really lucky to have this," Valeo says. "It's quite an exciting way to learn more about things and to meet your peers."

Like Valeo, many members heard about the program from their friends. SELL also markets the program to the community through news releases, advertising, e-blasts, brochures, and the MOLLI website, but the program has grown largely on its own through word of mouth.

UM art history and criticism Professor H. Rafael Chacón serves on the advisory council—as President Royce Engstrom's appointed faculty member—but Chacón also has been an instructor with the program since its inception.

Chacón got involved with MOLLI because SELL had run some off-campus classes he'd taught, and he enjoyed working with continuing education students who had taken his regular courses through the UM School of Art.

Now, aside from teaching MOLLI courses, he serves as a bridge between the council and the instructors, helping the

program continue to draw great faculty members and offer exciting, unique courses.

"I suspect the quality of the instruction is the number one incentive," Chacón says. "I think we have an avid community of very active retirees, and people who really are here to a large extent because of the University community and all the services and amenities UM provides."

"It was a different kind of educational opportunity with no tests, no grades, and really optional homework, which was appealing."

"That intersection of a community that wants more from the University, and the University being able to step up and provide, is really what has made MOLLI a successful program."

Moving forward, everyone agrees MOLLI is in a great position for continued growth, but also to re-evaluate and grow in a mindful, beneficial direction.

"I think—like every organization and institution in the country—we're having to become more fiscally aware," Maclean says. "We're going through an educational process of saying we're blessed to have this, but be aware of where the nickels and dimes are. To move this forward for another generation we have to be good fiscal custodians at this time."

This year, MOLLI launched its first fundraising campaign. With an initial goal of \$20,000, donations already have surpassed \$30,000, with 28 percent of the membership participating. The extra funds will support the program operations and allow more people to receive tuition waivers or scholarships.

And it seems the more who participate, the better. It's a special class that excites learners, and at the end of Johnson's improvisation lesson when she asked her students what they thought of the first day, the entire room responded "Fun!" and gave a hearty round of applause. 📖



Bess Pallares graduated from the UM School of Journalism in 2009. She works as a news editor for UM University Relations, where she enjoys writing about the research and innovation happening at her alma mater.

THINK TANK

UM's new Brain Initiative puts professors' heads together to explore what's inside them

STORY BY JACOB BAYNHAM
PHOTOS BY TODD GOODRICH
ILLUSTRATIONS BY BRIAN BLUNT

Darrell Jackson's fascination with the brain began early—in junior high, to be precise, on a science-day field trip to the University of Washington School of Medicine. During that day he lost his classmates and found his calling.

"I'm one of those knuckleheads who will disappear from a group," he says.

This particular day, he wandered up to the seventh-floor Department of Neurosurgery. Walking around, he saw laboratories full of scientists and doctors in white coats. They were conducting research on epilepsy in Rhesus monkeys, he would later learn, studying the patterns of their brain waves during seizures.

A surgical tech found Jackson wandering the halls. Jackson gushed about how interesting the research looked. "If you really are interested," the tech told him, "come back. We'll put you to work."

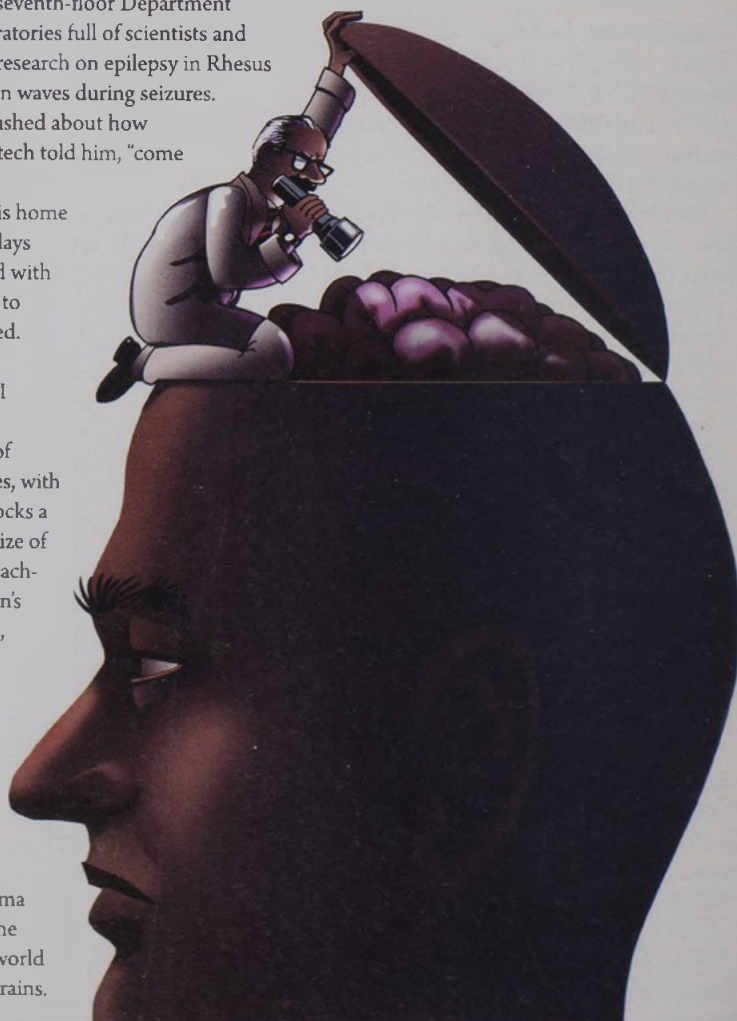
And so he did. He had to catch two buses to get there from his home in West Seattle, but he worked in the labs on weekends and holidays all through high school except during football season. He worked with monkeys, cats, and rabbits, studying how their brains responded to seizures and how nerve cells could regenerate after being damaged.

"It was just completely fascinating," he says. "I've always been interested in the brain itself. Like a kid who takes apart a toaster, I wanted to know how it worked."

Thirty odd years later, Jackson is a professor in the University of Montana's Department of Biomedical and Pharmaceutical Sciences, with labs of his own. He walks into one of them on a recent Friday, unlocks a chained cupboard door, and withdraws a sealed specimen jar the size of an ice-cream tub. It's not much to look at. But there, bobbing in peach-colored preservative, is the wrinkled, three-pound object of Jackson's lifelong curiosity: a human brain. Jackson admires it for a moment, lighting up like he's back in the seventh grade, lost on a field trip.

"Every square inch has a function," he says. "I still don't know how it works to this day. I know a lot more. But I still don't know."

Jackson's fascination is hardly unique. Scientists have been captivated by the brain for centuries, but like Jackson, the more they learn about the enigmatic organ, the more they realize they don't know. Brain research has enjoyed a recent renaissance in America. Last year, President Barack Obama announced an ambitious new proposal to map every neuron in the brain in the spirit of the Human Genome Project. The sporting world increasingly is interested in the way concussions effect athletes' brains.



is designing theater workshops for people with traumatic or acquired brain injuries. Every year for the past decade, she's traveled to a holistic rehabilitation center in Sweden to help people recover from strokes or head injuries.

"People are very different after a brain injury," Campana explains. "Often they don't have people help them know how they've changed, who they want to become, and how they want to be perceived."

Acting can help answer those questions, she says. The stage offers a safe environment to try out different emotions without consequences. It helps survivors learn to speak again, to better coordinate their bodies, and to regenerate their sense of selves. Campana worked with one young woman who suffered a traumatic brain injury in a skiing accident. The woman was in a wheelchair but hoped to walk again. She was able to stand, occasionally, but hadn't taken any steps since the accident. During the course of the workshop, Campana noticed her mobility increase. Eventually, with two people at her side, she was able to take eight or nine steps.

"I'm not saying that theater made her muscles move," Campana says. "I'm saying because of the drama exercises, she believed she could do it and had the courage to try. There's something very empowering about the magic of inhabiting another person through acting."

For Campana, the work is personal. Fourteen years ago she suffered a stroke herself. The damage wasn't cognitive—she's grateful for that—but it left Campana able to move only the tip of her finger.



"I had to learn everything," she says. "How to put a spoon to my mouth, how to brush my hair."

Physical therapists lowered her into a swimming pool and taught her to walk again. Less than a year after the stroke, she was able to walk down the aisle in her wedding, without a cane. Years later, she ran the Chicago Marathon. She still has no feeling on her left side, but she feels fortunate to have recovered as quickly and fully as she did.

The experience fuels the work she does today. In spring 2015, she'll teach a course in applied theater—a class geared toward students outside of the arts who would like to apply drama to psychology, social sciences, education, neuroscience, and other disciplines. For now, she's excited to be learning about the brain research going on around campus. She hopes the Brain Initiative will enable her to measure the efficacy of applied theater in restoring the physical and psychological

health of stroke survivors. She has enjoyed talking to professors from other disciplines about her work.

"It's very encouraging for me that faculty are interested that an art form can improve the life of a person who's experienced trauma," Campana says. "It can help them heal and become who they want to be."



Across campus, in the basement of the Curry Health Center, Catherine Off helps people become who they want to be by helping them say what they want to say.

A speech pathologist, Off directs the Big Sky Aphasia Program with her colleague Annie Kennedy. Together they coordinate intensive speech therapy for victims of strokes, traumatic brain injuries, and degenerative illnesses. The power of speech, Off says, is a complicated cognitive and physical process most people take for granted. In order to say "book," for example, our brains must summon our memory of the object, recall the word for that object, and then assign the mouth and tongue to vocalize that word—in milliseconds.

"It's kind of unbelievable that we do it with such success," Off says.


When that ability is impaired by a brain injury, however, a person can feel like they're stranded in a foreign country, struggling to string together the right words in the right order.

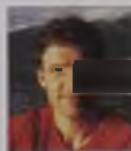
"A lot of people withdraw," Off says. "It's an instinct when you can't communicate. Our goal is to get them back out there."

The Big Sky Aphasia Program offers two intensive clinics each year, in summer and fall, where six to eight patients receive speech therapy in groups and one-on-one. There are only three or four programs like it in the country.

Throughout the academic year, Off and her colleagues run clinics where students in the Department of Communicative Sciences and Disorders [part of the Phyllis J. Washington College of Education and Human Sciences] get firsthand experience working with patients. Off monitors their interaction with patients via remote camera or a two-way mirror.

The communicative sciences and disorders department recently was revived after a twenty-year hiatus, and Off is glad to be training the next generation of Montana's speech pathologists. Watching them work with patients reminds her why she entered the field and exemplifies the potential of UM's Brain Initiative, which is establishing synapses among faculty across campus to apply and share their diverse understandings of our most complex organ.

"I've always been drawn to people who have undergone some sort of life-changing event," Off says. "I still love meeting a client for the first time before I know anything about them. I've never met two clients who are the same. No two people think exactly the same way." 



Jacob Baynham graduated from UM with a journalism degree in 2007. He writes for *Men's Journal*, *Outside*, and other magazines. He lives in Polson with his wife, Hilly McGahan '07, and their newborn son.

A True Trailblazer



Hedge fund founder Renée Haugerud works in a corner office of the landmarked Beaux Arts Scribner Building on New York City's busy Fifth Avenue. But the ideas that brought her here are rooted in a tiny log cabin near Montana's Blackfoot River, surrounded by groves of larches, Douglas firs, lodgepoles, and ponderosa pines.

"I think every lesson in trading," says Haugerud, who graduated in 1980 from the University of Montana School of Forestry and is now the chief investment officer of Galtere, Ltd., "you can learn from nature."

Haugerud has managed assets worth a billion dollars. One of three funds she oversees, Galtere International Master Fund, has for the past fifteen years averaged annual returns of more than 12 percent—better than other Wall Street funds many times older and more famous. She accomplished this, notably, in an industry where 97 percent of hedge funds are run by men.

"I like to think of Renée as this amazing character out of a Western movie," says Janet Hanson, a former Goldman Sachs executive who founded the women's networking group 85 Broads. "She really blazed a trail for herself in a way I've never seen anybody with her background do."

Most unique about Haugerud's rise through the rarefied air of Wall Street is her earthy pedigree. No old fortune, Ivy League, or Northeast estate gilds her background. Instead, she grew up a sheriff's daughter on a Minnesota farm. Then she moved west to Montana—where a bull market is a livestock auction, and a bear market is a huckleberry patch—and learned about trees, innovative thinking, and, eventually, loss.

"I admire her career; she's very smart," says Karen Finerman, a CNBC personality and CEO of New York's Metropolitan Capital Advisors. "And I don't know that I can name anyone else with a Bachelor of Science in forestry."

It was by studying forests in Montana that Haugerud discovered key insights that she would apply to finance on Wall Street.

"Pattern recognition is one of my strengths as an investor," Haugerud says in a phone interview. "And I really believe I

got that through my courses and great professors at UM—specifically in dendrology."

Haugerud, whose blond locks came maternally from Norway and whose blue eyes came paternally from Ireland, was born the first of four siblings in a southern Minnesota farming town called Preston, population 1,800. Her father, Neil Haugerud, a farmer, was elected sheriff in 1959 of the half-million acre county, named for thirteenth U.S. President Millard Fillmore.

"She talks about growing up on a farm in Minnesota all the time," says Kathleen Kelley, founder of Queen Anne's Gate Capital Management. "It gave her great insight into agricultural commodities."

At the age of three, Renée moved with her family into the sheriff's quarters in the front of the two-story, red brick Fillmore County jailhouse. Her mother, Helen, once a teacher in a one-room rural schoolhouse, cooked meals for the prisoners. One of young Renée's chores was to deliver their breakfasts.

The incarcerated were, Sheriff Haugerud writes in his 1999 book, *Jailhouse Stories: Memories of a Small-Town Sheriff*, "honorable, eccentric characters who happened to be alcoholics, just plain drunks, thieves, burglars, robbers, doctors, lawyers, judges, farmers, and ordinary citizens."

In a varied résumé that included a tour of duty in Korea and an appointment by President Jimmy Carter to a conservation commission, Sheriff Haugerud also was a pilot. And he knew a little about investing. In a small plane, he flew his eldest daughter over Iowa cornfields and explained how she could sell those strangers' crops—in a sense—via the futures market for commodities.

Since before she lost her first tooth, Haugerud read books on business. She showed her entrepreneurial spirit by selling lemonade at a stand across from her town's Lutheran church, and also canned goods out of the jailhouse basement. Primed with such business acumen, she took to the idea of commodities futures like a sunfish to a kernel of corn.

"I was hooked," she says.

But she also loved to camp in a tent in the big jailhouse backyard at the base of a walnut tree where a hooting owl lived. When it came time for college, Haugerud decided to study forestry.

"I wanted to get an education in something that I wouldn't learn on my own," she says. "Like a chef might eschew a formal cooking school, I didn't want a business degree to contaminate me."

She took prerequisite science classes at universities in Minnesota and Wisconsin and in 1978 transferred to the University of Montana.

"I loved the out of doors, and when I got to the nitty-gritty of actually getting the degree," she says, "I thought I should go somewhere where the trees are."

She rode a train to Montana, her clothes in a trunk, having never before visited Big Sky Country. She thought herself an atypical student, not shy, but not interested in joining clubs—just "wanting to do the real hard-core forestry stuff." She skied some, hiked the M plenty, and when she yearned for wilder mountains, she tagged along with student backpackers bound for the Continental Divide Trail in Glacier National Park.

She also lived in a dorm room in Jesse Hall and was paired with a roommate. This young woman, a Butte native with dark brown hair and green eyes who transferred her junior year from Montana State University to study nutrition, was named Cindy Sample. In personality and temperament, Sample was Haugerud's opposite. Naturally, they became best friends.

Sample brought Haugerud home to Butte for Easter dinner. After the meal, the two friends rose with Sample's mother to clear dishes from the table. Sample's brother stayed seated. In front of the whole family, Haugerud called him out for not helping.

"I said, 'Well he should be!'" says Cindy's mother, Marlene Sample, with a laugh. "Renée is just a very wonderful, unique little gal. She knows her mind, and she just took the hearts of the whole family."


Together, Haugerud and Sample road-tripped to Minnesota to celebrate St. Patrick's Day, split sandwiches in Missoula at a spot called Alice's Restaurant, and visited Butte often, where Sample's father told Haugerud that she would be the first woman president.

Then Haugerud moved to that cabin in the Lubrecht Experimental Forest. A young professor taught her the dendrology lessons that cross-pollinated with her business ideas. She learned dendrochronology, the study of tree rings and how to see into the past to tell the best years for growth. She also learned ecophysiology—how all plants and animals interact in an ecosystem. She realized that by coupling the principles of dendrochronology and ecophysiology, she could spot the first signs of change in any environment.

"My dendrology courses—identifying plants, species, understanding their environment, the importance of recognizing one small pattern, one small divergence," Haugerud says, "gave me some of the best tools for microanalysis of markets, stocks, and currencies that I've ever had."

She graduated with honors in June 1980 with a degree in forest resource management. But she never considered working in the woods. She took a job back in Minnesota with agribusiness giant Cargill, her employer for the next thirteen years.

She came back to Butte once, memorably, for Cindy's wedding. She was a bridesmaid. Marlene says she couldn't help but notice how her



"Pattern recognition is one of my strengths as an investor," Haugerud says. "And I really believe I got that through my courses and great professors at UM—specifically in dendrology."



once-shy daughter had changed to be like her best friend—confident, assertive, and outspoken. At the reception, Marlene remembers that Haugerud deftly rebuffed bachelors and heard again the father-of-the-bride say she'd be a fine president.

Trading in global financial and commodities markets now, Haugerud moved from Minneapolis to Geneva, and then to Hong Kong. She was living in Melbourne, Australia, in 1990 when she traveled again for Cindy, this time to Maui, a paradise Sample wanted to visit while she still could. She had leukemia.

Speaking by phone from her office in Butte, where days earlier Haugerud called just to say hello, Marlene remembers that trip.

"Renée got on a plane so she could see Cindy," she says. "Such a nice gal. What a sweetheart."

Cindy Sample died in 1991.

"I'm still friends with her family," Haugerud says.

In 1997, Haugerud invested \$5 million and founded her hedge fund, Galtere, a name that means "pragmatic simplicity." With a foundation in commodities trades, in 2002 Galtere shot up a remarkable 61 percent. Still, the fund had just \$12 million in assets. Haugerud had trouble attracting big investors—almost exclusively men.

Among the bolts holding down this glass ceiling, Haugerud says, was a backhanded notion that while women investors wouldn't lose much money, they wouldn't make much either—this despite data from Hedge Fund Research, Inc., that showed that between 2000 and 2009, hedge funds run by women had almost double the returns of hedge funds run by men. Another was a kind of psychological dogma that made many investors trust only a myopic kind of market research.

Haugerud viewed this problem through the prism of her UM classes in dendrology. She saw too many analysts look only at the past performance of stocks. These were the strict dendrochronologists of the investing world—men who relied solely on tree rings for hints as to how well a financial forest would grow.

Haugerud's investments at Galtere were imbued with the financial equivalent of ecophysiology. She scoured stocks' tree rings but also did deep research on a host of other environmental factors: market trends, political changes, cultural shifts, monetary adjustments, and scores more. She made artful choices.

"The science of trading basically ponders the past. The art of trading focuses on the future," Haugerud says. "The art of land management is, wow, how do you tweak it so it becomes healthier—to decrease disease, increase diversity, and achieve your desired outcome. Investing is the same."

In 2003, Haugerud broke through. She reached out to a man named Gary Jarrett, who runs Cargill's hedge fund, Black River Asset Management, LLC, and once was Haugerud's boss. Cargill invested \$60 million in Galtere. Like a wave of dancers following the first brave soul out onto the floor, new investors flooded to Haugerud. The bolts that held the ceiling popped. In a few years, Galtere was managing \$2.4

billion. In 2013, *Business Insider* named Haugerud one of the twenty-five most powerful women on Wall Street.

"She is a singular and original thinker and not a recycler of other people's ideas," Jarrett says. "She connects dots in ways others might not."

In 2009, Haugerud and her husband, John H. Murphy, gave \$1.5 million to the University of Tennessee in Chattanooga, where Murphy went to school and where the couple keeps a home, to found the Galtere Institute. Its purpose, Haugerud says, is to teach investing from the perspective of women.

"I've always felt that male-dominated careers should have more females in them," Haugerud says. "And I think that contributes to diversity not from an altruistic conception, but in a globalized world, the more you have a diverse work environment, the more you understand, the better off you are."

Beyond gender equality, Haugerud says the purpose of the Galtere Institute is to infuse investing with a sense of psychology. Wall Street, she says, is saturated with left-brain thinkers—people who are analytical, linear, and objective. It needs more thinkers who can intuit changes, find parallels, and spot patterns.

"There's a paucity of right-brain thinking in investing, and part of that is because there are so few women," Haugerud says. "If you want a diverse portfolio, look at your investing team."

With Haugerud thus committed to broadening the scope of how finance

is taught, it's worth circling back to UM in 1979 to note an important teaching change that came to the forestry school.

Fresh from earning a Ph.D. in forest ecophysiology at Colorado State University, a new professor took a job at UM. His course: dendrology. But instead of just drilling names of plants and measurements of tree rings, as had been done before, he taught principles of biology, ecology, and ecophysiology.

"I will never forget my dendrology course," Haugerud says. "I had an excellent professor."

It was Steve Running, whose intellectual might was recognized by the world community in 2007 when a panel he served on was awarded a Nobel Peace Prize for contributions to our understanding of climate change.

When reached at UM, and told of the former dendrology student who partially credits his lessons from a forest with her fortune from Wall Street, he laughs.

"That really spun my top," Running says. "What a great example of the value of a liberal arts education and how you learn to think and translate it into a new field and become successful." 🐾



Nate Schweber is a freelance journalist who graduated from UM's School of Journalism in 2001. His work appears regularly in *The New York Times*, and he is the author of *Fly Fishing Yellowstone National Park: An Insider's Guide to the 50 Best Places*. He lives in Brooklyn and sings in a band called the New Heathers.

"She is a singular and original thinker and not a recycler of other people's ideas. She connects dots in ways others might not."



STORY BY ERIKA FREDRICKSON

Native Knowledge



Program
inspires
future
generation
of Indian
scientists

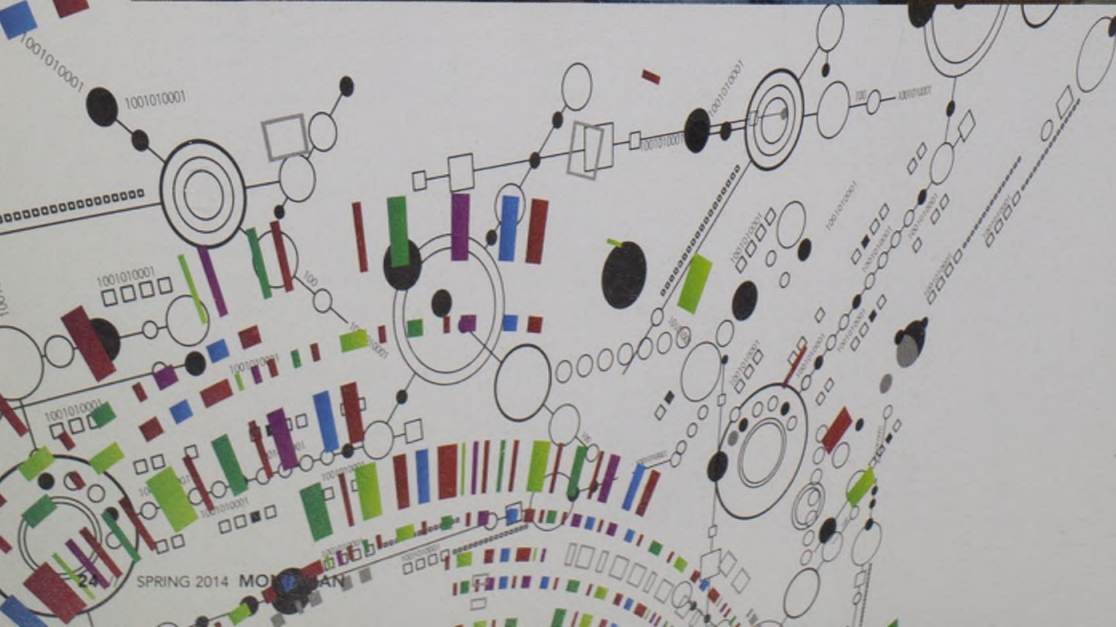
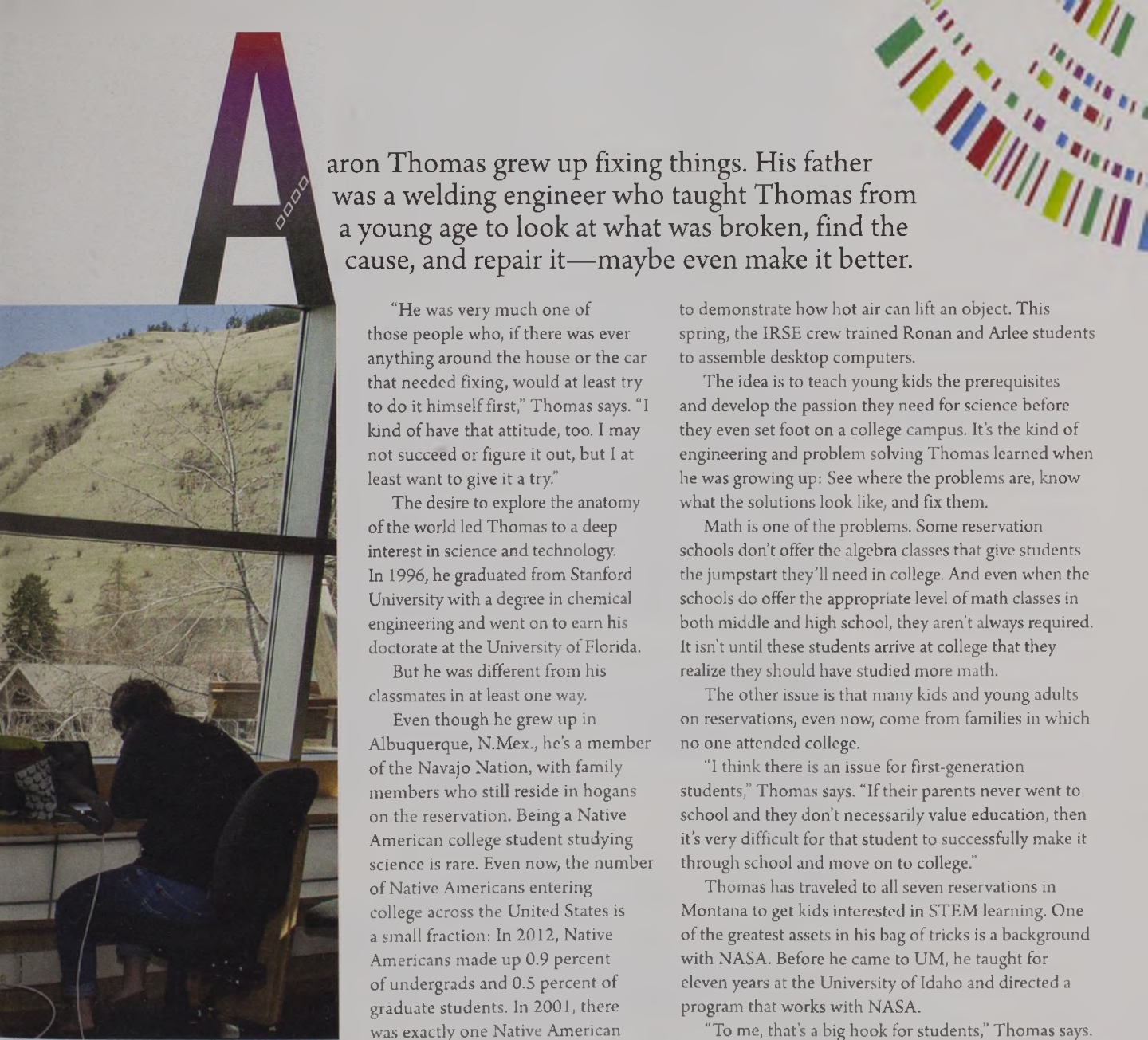


ILLUSTRATION: KRULUA, THINKSTOCK.COM

MONTANAN.UMT.EDU



Aaron Thomas, a chemistry professor at UM, directs Indigenous Research and STEM Education, a program that seeks to bring more Native American students into science, technology, engineering, and mathematical fields.

Aaron Thomas grew up fixing things. His father was a welding engineer who taught Thomas from a young age to look at what was broken, find the cause, and repair it—maybe even make it better.

“He was very much one of those people who, if there was ever anything around the house or the car that needed fixing, would at least try to do it himself first,” Thomas says. “I kind of have that attitude, too. I may not succeed or figure it out, but I at least want to give it a try.”

The desire to explore the anatomy of the world led Thomas to a deep interest in science and technology. In 1996, he graduated from Stanford University with a degree in chemical engineering and went on to earn his doctorate at the University of Florida.

But he was different from his classmates in at least one way.

Even though he grew up in Albuquerque, N.Mex., he’s a member of the Navajo Nation, with family members who still reside in hogans on the reservation. Being a Native American college student studying science is rare. Even now, the number of Native Americans entering college across the United States is a small fraction: In 2012, Native Americans made up 0.9 percent of undergrads and 0.5 percent of graduate students. In 2001, there was exactly one Native American student listed nationwide as having graduated with a doctorate in chemical engineering.

“I’m pretty sure I know who that was,” Thomas says. “That was me.”

Thomas now is a chemistry professor at the University of Montana and director of Indigenous Research and STEM Education [IRSE], a program that seeks to bring more Native American students into science, technology, engineering, and mathematical fields. The program is situated on UM’s campus and supports Native American students pursuing degrees in science and technology, but a large part of the program is doing outreach to middle and high school students across Montana.

Last summer, Thomas, program coordinator Jon Stannard, and IRSE undergraduates showed middle school students how to build and launch model rockets. They used eggs to replicate the landing challenges of the Mars Rover, and they constructed tissue-paper balloons

to demonstrate how hot air can lift an object. This spring, the IRSE crew trained Ronan and Arlee students to assemble desktop computers.

The idea is to teach young kids the prerequisites and develop the passion they need for science before they even set foot on a college campus. It’s the kind of engineering and problem solving Thomas learned when he was growing up: See where the problems are, know what the solutions look like, and fix them.

Math is one of the problems. Some reservation schools don’t offer the algebra classes that give students the jumpstart they’ll need in college. And even when the schools do offer the appropriate level of math classes in both middle and high school, they aren’t always required. It isn’t until these students arrive at college that they realize they should have studied more math.

The other issue is that many kids and young adults on reservations, even now, come from families in which no one attended college.

“I think there is an issue for first-generation students,” Thomas says. “If their parents never went to school and they don’t necessarily value education, then it’s very difficult for that student to successfully make it through school and move on to college.”

Thomas has traveled to all seven reservations in Montana to get kids interested in STEM learning. One of the greatest assets in his bag of tricks is a background with NASA. Before he came to UM, he taught for eleven years at the University of Idaho and directed a program that works with NASA.

“To me, that’s a big hook for students,” Thomas says. “It’s also the culmination of all applied engineering and science coming together—that’s what NASA does. It’s exciting. I try to show them that this is what they could ultimately do. I say, ‘It may not seem related to your tribes and people, but imagine working there and coming back and doing something marvelous and wonderful on the reservation.’ And that’s a possibility.”

Casey Ryan isn’t a gear-head, he just loves being outdoors.

He fishes with a garage sale fishing rod, floats the rivers in a beat-up kayak, and hunts with a rifle he inherited from his grandfather. He’s an enrolled Salish tribal member from Missoula, with family scattered from the Bitterroot to Polson. As a kid, he saw that the mountains, streams, and lakes all were inextricably linked. It didn’t occur to him until he was a little older that not everyone values natural resources as a top priority.

Another graduate student, **Moses Leavens**, grew up in Great Falls raised by his mother, who worked several jobs to help support the family.

Leavens, of Chippewa and Cree descent, earned degrees in math and biology at the University of Great Falls, and during that time he held an internship at the health department, where he became interested in viruses. He was one of a few students nationally selected into the Amgen Scholars Program at the Massachusetts Institute of Technology, and he eventually enrolled at UM as a Sloan Scholar in biochemistry and biophysics. So far, he has done research on Rift Valley fever and on folding proteins in cells that lead to degenerative conditions such as Parkinson's disease. Both research projects have widespread application.

"Rift is a public health threat native to Africa, but it affects international travel, and with climate change it could spread," he says. "There's data that it has."

The other impact he wants to make is on Native students. He plans to attend some of the Gear Up camps with kids on the reservations to show them how exciting his work can be.

Some IRSE students hope to use their studies to directly address issues in and around the land from which they came. Ranalda Tsosie, for instance, is a Sloan Scholar working on a Ph.D. in chemistry. She's studying the extent to which chromate in drinking water damages human DNA, and she wants to find a repair mechanism to reduce the damage. It's an issue that her family on the Navajo Reservation deals with due to uranium and heavy metal dumping.

The cultural knowledge that a Native American scientist can bring to the reservation is vital. Understanding the inner

workings of a community can help a clean-up effort or public health project immensely. But having top-notch scientists has to be part of the equation.

"I think foremost it's important that you have the most qualified person in the position and not just that they're Native American," Ryan says. "And that's where opportunities like IRSE come in to provide those hands-on experiences with students—providing them with research opportunities so they can be successful in graduate school, providing them with a community so they can have people to talk to if they have challenges with their research, and providing them with mentors. That's why programs like this one are important to have on campus. Once you have all those things in place, you can get Native Americans who are educated, experienced, and qualified to take on these positions so that they can come in with a science perspective and a cultural perspective and tie the two together to do what's best for the land."

There are big plans for IRSE on the horizon. Thomas and Stannard plan to host other summer Gear Up camps at Fort Peck, Flathead, and Rocky Boy reservations. They're currently trying to start a chapter of the American Indian Science and Engineering

Society so UM students can become part of an even larger network of Native Americans in STEM fields. They can attend conferences, apply for scholarships, and find jobs. One day, Thomas hopes to build an entrepreneurship program for students looking to start their own companies.


Ultimately, it's the students who will decide where their STEM future takes them, but the idea that reservations could benefit is exciting to Thomas and his students.

Meanwhile, more Native students at UM

are getting excited about science. Over spring break, three Native American undergraduate students traveled with Thomas to the Jet Propulsion Laboratory in Pasadena, Calif., where the Mars Rover was made. The students got to talk with scientists—some of them also of Native American descent—to hear about what it's like to build machines that end up on an entirely different planet. They got to see the main control room and the "Mars Yard," which is a simulation of the rocky red Martian landscape where the scientists improve their rover prototypes.

Naomi Branson, a computer IT major with a passion for programming, was one of the students who went on the trip. "The experience was amazing," she says. "It really inspired and fueled my drive to continue my education—to do something I love."

One of the main goals of IRSE is tearing down the perception that college is for one group of people and not another. That science is too hard. That it's only other people who dream about building robots and exploring space, and finding cures. Realizing those are not true is the key that opens up the door. It's the first fix.

"I think when you come from a small place, you put a lot of things on a pedestal," Branson says. "You think a lot of things are unreachable for you. The cool thing about this program is that they show you there are a lot of amazing opportunities available to you if you have the drive and skills and passion to pursue them. It makes you realize that nothing is out of reach." 

"Once you have all those things in place, you can get Native Americans who are educated, experienced, and qualified to take on these positions so that they can come in with a science perspective and a cultural perspective and tie the two together to do what's best for the land."



UM students Naomi Branson, left, Dirk Lawhon, and Emily Bauer pose with the Mars Rover on a spring break trip to NASA's Jet Propulsion Laboratory in Pasadena, Calif.



Erika Fredrickson is the arts editor at the Missoula Independent. She graduated from UM's Creative Writing Program in 1999 and earned a master's degree in environmental studies in 2009.



BUSY. PASSIONATE. GRATEFUL.

You could say that University of Montana junior Capri Richardson has a few things going on. She's a middle blocker on the Grizzly volleyball team, holds a 3.67 GPA and volunteers as a youth mentor.

She's also the recipient of the Shaun and Mary Ann Corette Athletic Scholarship.

Growing up with military parents, Capri has seen a fair share of the world. But UM makes her feel at home.

"Going out in the community, everyone seems to back the Griz 100 percent," she says. "But even more, my professors and the level of support I have received from faculty and staff have been amazing. My scholarship has changed my life."

With an eye already focused on graduate school, don't expect her to let the grass grow under her feet.

She's got too much to do to slow down now.

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RAISING MONTANA

AN ARTISTIC VISION

Couple expresses love of Montana and art through generous gift

Did you know UM's Montana Museum of Art & Culture houses the most diverse art collection in the Northern Rockies?



Chances are, you answered no. That's because the museum exhibits just a small percentage of its works at any given time, mostly at small venues on campus.

It's a problem that Suzanne Moore Crocker '64 and her husband, Bruce Crocker, are determined to change.

"Getting more of the collection of 11,000 original works of art out of storage and up on the walls will be a wonderful thing," Suzanne says. "It is very exciting to think that sometime in the near future, students on campus can actually go into the museum and see the real artwork. It will be the most comprehensive fine arts collection on exhibit in the state and available to all Montanans."

To make this vision a reality, the Crockers have committed a gift from their estate to establish the Suzanne and Bruce Crocker Distinguished Director Fund. The Crockers also are providing an annual gift for the fund until their bequest is realized.

"A great museum always begins with a great director," Suzanne says. "This collection encompasses a very broad scope of work, from medieval religious icons to work from European masters such as Rembrandt, Daumier, and Picasso, as well as American artists such as Henry Paxson in

the nineteenth century and Andy Warhol in the twentieth century. This diversity allows teaching about so many different times, places, and cultures as seen through the art."

Born in Kalispell, Suzanne is a third-generation Montanan. Today, the Crockers live in Palo Alto, Calif., and their commitment to the University

The UM Foundation and the MMAC thanked the Crockers with an oil painting, *Clouds Over Many Glacier*, by Montana artist Greg Scheibel.

is commendable. Suzanne served on the UM Foundation Board of Trustees for many years, as well as the President's Advisory Council. Now, Bruce serves on the Foundation Board and its Investment Committee, and Suzanne belongs to the Montana Museum of Art & Culture Advisory Council.

"Each piece of art tells a story," Bruce says. "We hope our gift is a solid start and inspiration for others to also support a permanent home for such a wonderful Montana treasure."

Bruce now is retired after a varied career in Silicon Valley. Initially, he served as an

operating executive with several companies, then worked as an investment banker with Hambrecht and Quist. From 1998 until his retirement, he was a partner in Pitango Venture Capital, Israel's leading venture capital fund.

Before her retirement, Suzanne worked as an executive in marketing and communications for a number of Silicon Valley companies, including Businessland and Raster Graphics. She also consulted with many software and hardware companies. When she retired from the tech world, she completed a master's degree in English literature and now dedicates much of her time to volunteering at Stanford University's Cantor Arts Center. Together, the couple raised two children. They now enjoy time with their four grandchildren, who also live in the Bay Area.

MMAC Director Barbara Koostra says the Crockers' generosity will preserve the University's art collection for future generations.

"I am so grateful for this gift from Suzanne and Bruce because it strengthens the museum now and also encourages others to join the mission of permanently housing this immense resource for Montana and the entire region," Koostra says.

See some of the museum's works of art and hear from Suzanne and Anne Bertsche, another museum supporter, at www.youtube.com/TheUMFoundation.

To learn how you can support a new home for the Montana Museum of Art & Culture, call Koostra at 406-243-2797 or e-mail barbara.koostra@mso.unt.edu.



Make a gift online at www.SupportUM.org

Head to Griz Territory for Homecoming

September 21-27, 2014



77.0037 Two wagon freighter pulled by six horses in front of the Dickinson Store and Post Office on East Front Street in Missoula, Montana Territory. Amos Buck is driving and Will Cave is riding next to him. 1870. Courtesy Archives and Special Collections, Maureen and Mike Mansfield Library, University of Montana-Missoula.



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UM's Fighter Poet



JOHN J. SCHULZ

'62, Cape Charles, Va., recently published *Songs from a Distant Cockpit*, an account in poetry and prose of his life as an F-100 Super Sabre pilot in Vietnam.

In an interview with the Alumni Association, John, a

1995 Distinguished Alumnus, shared insights on his journey as a writer.

Just out of high school, John had to choose between a football scholarship to Notre Dame and a full-tuition scholarship to the School of Journalism at the University of Montana. It was a tough decision, but John always had dreamed of becoming a foreign correspondent, so the Grizzlies won out.

Part of what earned him the J-school scholarship was a sonnet he'd written for a class assignment. John's education in poetry took off at Missoula's Loyola High School, where students were required to memorize a poem every day and recite it in front of the class on demand. John says at least parts of about 200 of these poems stick in his head to this day. Rhythms and rhyme schemes became automatic for him, and about two-thirds of the verse that appear in *Songs* use classic meters.

During college, John went on to win a prize for his poetry, wrote for the *Montana Kaimin*, served as an AFROTC cadet, became vice president of Sigma Chi, and earned three letters

as a Grizzly quarterback. It wasn't long before John had his sights set on the sky.

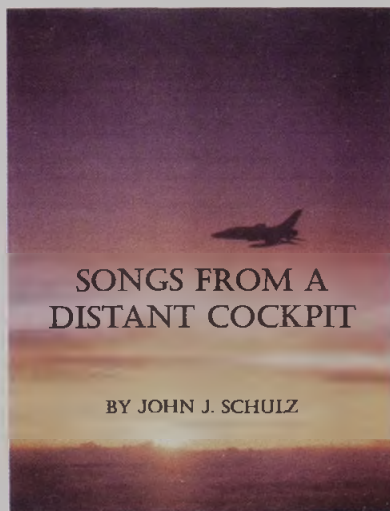
Commissioned in the Air Force at graduation, he trained to fly close-air-support fighter-bombers through the jungles of Vietnam. His craft, the F-100 Super Sabre, was widely known as "the most dangerous plane ever built," killing twenty-nine of its sixty-eight pilots in John's wing during his year there. He flew 275 missions in 1967-68 and earned twenty-two combat decorations, including the Silver Star.

In 1976, while working as a correspondent for *Voice of America* in Tokyo, he wrote his first version of *Songs*. A publisher quickly picked it up, but its final reviewers turned it down on the basis that, just two years out from the war's end, no one would want to read a book about Vietnam.

It wasn't until after the 2013 biennial Super Sabre Society reunion that John considered dusting off the manuscript. As banquet emcee, he decided to integrate a few of his poems into his remarks. He was nervous about his audience's reaction. "These are tough people," he says. "I don't know how they're going to handle poetry." But John needed to be sure

his account was true to the experience of his comrades. "As I left the stage," he says, "guys were grabbing my arm. 'You've got to get this published, J.J.,' they said."

John has been gratified by the reception of readers both military and civilian. Just six weeks after publication, *Songs* was picked up by the Smithsonian Institute's Air and Space Museum bookstores. For more information, e-mail the author at jjschulz@bu.edu.



Keep Us Posted. Send your news to the University of Montana Alumni Association, Brantly Hall, Missoula, MT 59812. Go to www.grizalum.com and click on "Submit a Class Note," fax your news to 406-243-4467, or call 1-877-UM-ALUMS (877-862-5867). Material in this issue reached our office by March 19, 2014.

Note: The year immediately following an alum's name indicates either an undergraduate degree year or attendance at UM. Graduate degrees from UM are indicated by initials. Whenever you change your mailing address, please contact the alumni office. Let us know where you are and when. Thank you.

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Downtown Missoula

1950s

ELSIE LENORE DODD

'59 and **DAVID A. DODD** '62, Richland, Wash., are retired and have two married sons and eight grandchildren. Elsie and David spend much of their time volunteering to upkeep their church. They also enjoy their daily two-mile walks and keep a large garden.

1960s

GARY WOODGERD '63,

Missoula, and his wife, **KAREN CONNICK WOODGERD** '66, have returned home after more than thirty years living in Bellevue, Wash., and Agoura Hills, Calif. They have attended every Homecoming and UM reunion during the past fifteen years and love being back in Montana, especially Missoula.

DAVID HOWLETT '66, Wolvercote, Oxford, is a Billings native, Rhodes Scholar, and UM Distinguished Alumnus. He received his master's and doctoral degrees from Emory University and Oxford College, respectively, and was editor of the Dictionary of Medieval Latin from British Sources from 1979 to 2011. After 100 years of gathering more than 58,000 entries of Latin words used in Britain between 540 and 1600, the British Academy published the dictionary's sixteenth and final volume last December.

DON BRUNELL '68, Vancouver, Wash., is retiring after twenty-eight years as president of the Association of Washington Business. A veteran of the Washington Army National Guard, Don retired as major in 1993. He was a reporter for Butte's *Montana Standard*

and the *Missoulian* before working as a legislative aide for U.S. Rep. Dick Shoup of Montana. Don went on to serve as manager of communications for the Inland Forest Resource Council in Missoula and was public affairs manager for Crown Zellerbach in Olympia before joining the AWB staff in 1986.

GARY TRUCHOT '69, Sedona, Ariz., served as a special agent with the U.S. Foreign Service, U.S. Department of State, for twenty-three years, retiring in 2010. He and his wife, Paula, moved to Sedona and currently live in the Village of Oak Creek. Gary is active in various veterans' organizations, enjoys writing, and is a Court Appointed Special Advocate volunteer who oversees the legal proceedings of neglected and abused children. Paula volunteers for the Sedona Community Food Bank, and both are active members of Christ Lutheran Church.

1970s

CHARLES STEIN '70, Great Falls, retired from Benefis

Health System after a thirty-four-year career as an accountant. Chuck previously worked as a tax auditor with the Montana Department of Revenue. He and his wife, Margie Slenes Stein, raised twin girls and a son and have five grandchildren.



Renz

JEFFREY RENZ '71, J.D. '79, Missoula, is a Fulbright Scholar at the Free University of Tbilisi in the Republic of Georgia.

DAVID H. ELLIS, Ph.D. '73, Oracle, Ariz., published *Enter the Realm of the Golden Eagle*, a 500-page collection of accounts of golden eagles around the world. For more information, e-mail David at dcellis@theriver.com.

DONALD SMITH, M.B.A. '73, Ph.D. '75, Phoenix, is a

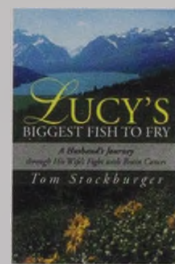
business law attorney with Manning and Kass, Ellrod, Ramirez, Trester.

SUE BUBNASH '74, Yakima, Wash., retired as an accountant and contracts manager for Yakima County after twenty-five years. She and her husband, Craig Lawrence Smith, were married thirty-nine years ago by UM Professor Ulysses Doss.

DAN MUNGAS '74, M.S. '77, Ph.D. '79, Plymouth, Calif., is an associate adjunct professor of neurology at the University of California, Davis, and director and principal investigator for the UC Davis Alzheimer's Disease Center of California.

MICHAEL R. STEVENSON '74, M.M.E. '78, Dickinson, N.D., was named 2014 Choral Director of the Year by the North Dakota Chapter of American Choral Directors Association. Michael is the choral director for Dickinson High School.

TOM STOCKBURGER '74, Denver, Colo., published *Lucy's Biggest Fish to Fry*, a memoir recounting his wife's fight against



brain cancer. Tom, a former member of the Alumni Association board, is the proud father of Keely and Kyle. **PATRICK HANLEY** '77, Seattle, spent more than



Hanley

thirty years as a partner at global accounting firm KPMG, retiring in 2011. Patrick joined KPMG in 1980 and was appointed managing partner of the Billings office in 1994. He later worked in Melbourne, Australia, and Chile on company assignments.

RUSSELL GRAHAM '72, Moscow, Idaho, research forester for the U.S. Forest Service Rocky Mountain Research Station, received the first National Silviculture Lifetime Achievement

award at the Biennial National Silviculture Workshop, held in conjunction with the 2013 Society of American Foresters National Convention in Charleston, S.C. Russell was nominated for his extensive research and technology-transfer accomplishments in creating innovative silvicultural systems and techniques that enhance disturbance resilience, wildlife habitat, forest products, and long-term soil productivity. Russell's wife, **KATHY FELDERMAN GRAHAM** '72, recently retired as an alumni consultant for Ellucian and the University of Idaho Office of Alumni Relations.



J. BART RAYNIAK '73, Otis Orchards, Wash., retired from the *Spokesman-Review* in December 2011 after a thirty-three-year career. Bart began as a writer/photographer and continued as a daily news photojournalist, photo assignments editor, assistant picture editor, and director of photography, culminating as a community news photographer for the *Spokane Valley Voice*. He looks forward to the centennial celebration of the UM School of Journalism at Homecoming this September.

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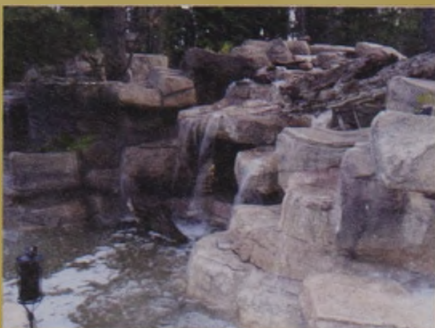
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FRANK R. "RANDY" HARRISON '75, J.D. '83, Missoula, organizes an annual European ski trip with family and friends. This year the group traveled to Lech, Austria, in the first week of February. Front row, left to right: **CHASE HARRISON '11**, Missoula; **ELAINE SCOTT '89**, Missoula; **KELLY FLAHERTY-SETTLE '80**, Helena; **RICHARD CROSBY '69**, Helena; **DAVID DORWARD**, Ph.D. '88, Hamilton. Second row: **JOHN ALKE '73**, J.D. '76, Helena; **SHARON HOLSAPPLE '81**, M.Ed. '05, Missoula; **DOREEN WEST JENNESS '94**, Missoula; Kate Supplee, Missoula; **GEORGANNA SCHARA CLIFFORD '72**, M.A. '73, Spokane, Wash.; **MOLLY HARRISON HOWARD '72**, Missoula; **JILL STEINBRENNER OLSON '85**, Missoula; **WILLIAM STEINBRENNER '59**, Missoula; **JEFF GRAY '79**, Great Falls; **NINA HARRISON '64**, Oro Valley, Ariz.; **AIDAN MYHRE**, M.B.A. '89, Helena. Back row: **MARS SCOTT '75**, J.D. '80, Missoula; **PAT MAHER '76**, Cave Creek, Ariz.; **GARY FRANK '83**, Missoula; **RICHARD HAMMA '77**, Missoula; Randy Harrison; **BARRY OLSON '79**, Missoula; **JAMES CHARLTON '75**, Helena; **RAYMOND HOWARD '73**, Missoula. Not pictured: **DAVID DIETRICH**, J.D. '84, Billings, and **MARK TEYNOR '14**, Missoula.

Joy N. Ott was named region president for Montana and Wyoming Wells Fargo banks. '79

He currently serves as an analyst with his daughter Elizabeth Hanley's law firm. Patrick and his wife, Marilyn, continue their personal philanthropic and community service interests in Seattle. The couple has five children and five grandchildren. **KAREN FERGUSON '78**, Bainbridge Island, Wash., realized a career in financial management centered on international research, education, and training at Battelle Seattle Research Center and the University of Washington. Karen also published *Lucky Stars and Gold Bars: A World War II Odyssey*, based on her father's 400 letters written during the war. The book

earned the 2005 Benjamin Franklin Award. **JOY N. OTT '79**, M.B.A. '91, Billings, was named region president for Montana and Wyoming Wells Fargo banks. Joy began her career thirty-four years ago as a credit analyst and became president of the Wells Fargo Montana region in 2000. She also served as national spokesperson for Wells Fargo's Women's Business Services for eight years.

1980s

DEE SHANE STEVENS '81, Aurora, Colo., received an Associate of Applied Science degree in building inspection technology from Chemeketa



Community College in Salem, Ore. Dee is a combination building inspector for the city of Littleton, Colo.

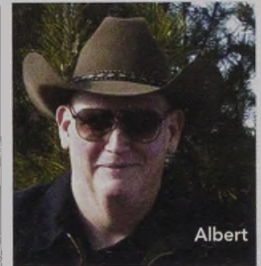
SHELLEY NELSON KIRILENKO '83, M.A. '88, Bethesda, Md., a native of Missoula, has published her fourth book, *My Year*



as a *few*, chronicling her year of celebrating Jewish holidays and learning Biblical Hebrew.

STEVE SAROFF '83, Missoula, founded and sold the software company RemoteScan, which is now part of Dell. Steve is an angel investor looking for new, great ideas in the Missoula area.

KYLE ALBERT, M.A. '84, Eagle, Idaho, started an online copywriting business, Copy Chef, fifteen years ago. Previously, Kyle worked for Shepard's/McGraw-Hill in Colorado Springs and as the writer/producer for a large ad agency in Las Vegas. He currently serves as the public relations officer and advancement coordinator for his sons' Boy Scout troop. Kyle and his wife,



Judi, look forward to moving back to Montana in the next few years.

BARTON YOUNG '84, Vero Beach, Fla., is chairman and CEO of Barton Young & Associates. His company received the 2013 Executive Council Award and the 2013 Top Asset Management Office award from Raymond James Financial Services.

CHRIS SCHOW '85, Sonora, Calif., is a wildland firefighter and fire management officer

NEW LIFETIME MEMBERS

The following alumni and friends made a commitment to the future of the UM Alumni Association by becoming lifetime members. You can join them by calling 877-862-5867 or by visiting our website: www.grizalum.com. The Alumni Association thanks them for their support. This list includes all new lifetime members through March 21, 2014.

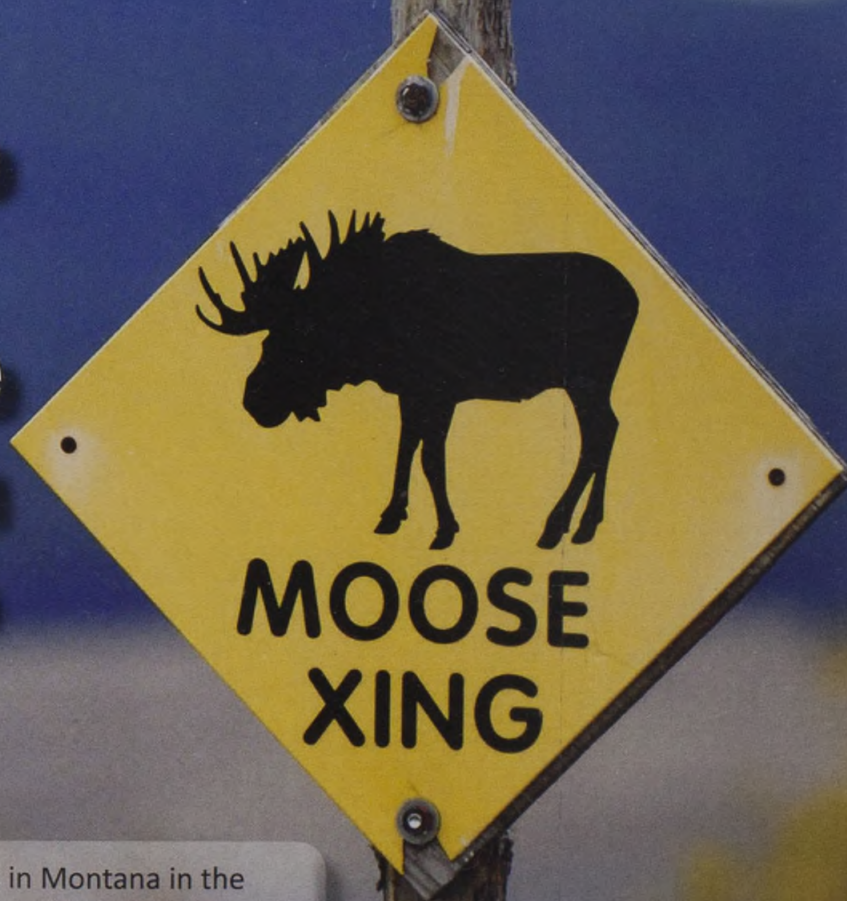
Jack Andersen '74, Deer Lodge
James E. Bailey '70, Spokane, WA
Kevin Campbell '80, Greta, NE
Megan Campbell '97, Omaha, NE
Matthew Cuffe '93, J.D. '96, and
Christine Cuffe '96, Missoula
Brent Flewelling '02, Northville, MI
Catharine Glennon '71 and
Michael Glennon '71, Billings
Patrick W. Hanley '77, Seattle
Vicki J. Johnson '78, Florence
Jack E. King '74, Billings
Henry Komadowski '79, Lethbridge, AB
Jo Ann Kopp '67, Carmichael, CA
Mary Kay Rambo '80, Gildford
Martha Rehbein '71 and Dennis Rehbein, Frenchtown
Mark Trenka '84, Centennial, CO
Joseph Valacich '82, M.B.A. '83 and
Jackie Valacich '85, Tucson, AZ
Joseph Vansickle '85, Sammamish, WA
Jon Wanderaas '10 and
Allie Rolandson Wanderaas '12, Cordova, AK
Gail Weeks '93, Butte Ground, WA
Devin Wolf '97, Oconomowoc, WI

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at the Stanislaus National Forest in California. Throughout his U.S. Forest Service career, Chris has been a Wyoming Hotshot, Sawtooth Helitack and McCall Smokejumper in Idaho, as well as an engine foreman in Sandpoint, Idaho, assistant fire manager in the Shoshone Forest in Wyoming, and fire management officer in the Green Mountain and Finger Lakes Forests in Vermont. Chris and his wife, **TERESA SCHOW** '90, have a niece, Kelsea Idler, who will graduate this year from the College of Forestry and Conservation at UM. Kelsea has competed on UM's Woodsman's team, served on the Foresters' Ball Committee, and worked as a wildland firefighter for the past several summers.

KARA CHADWICK '86, Arlington, Va., is assistant director for forest management for the U.S. Forest Service in Washington, D.C., and has been named supervisor of the San Juan National Forest in Bayfield, Colo.



TRACY REICH '86, Redmond, Wash., is executive director of the Helena Business Improvement District board. Previously, Tracy worked as program manager for U.S. Skiing [now U.S. Ski and Snowboard Association] in Park City, Utah, executive director of the Colville

Main Street Revitalization program in Washington, executive director of the Vancouver downtown association, and director of community programs at Impact Capital in Seattle.



Kauffman

VAUGHN KAUFFMAN, M.A. '88, Ed.S. '94, Helena, received the Distinguished Service Award as the Special Education Director of the Year from the Montana Council of Administrators of Special Education during the Montana Council for Exceptional Children Conference.

LISA POOLE '88, Spokane, Wash., joined KREM-TV as an account executive after twelve years in the advertising agency business. Lisa and her husband, **SCOTT POOLE** '88, also celebrated one

Sheriff's Office. Josh has served Missoula as a law enforcement officer for twenty-one years and has worked in every division of the Sheriff's Office, serving as deputy coroner for the past eight years.

JENNIFER HEGGEN '93, '13, completed a ten-week internship as pastry commis at Thomas Keller Restaurant Group's French-inspired Bouchon/Bakery in Yountville, Calif. She wrote a feature article about her experience in the American Culinary Federation's *Sizzle Magazine*. Read her story at www.sizzle-digital.com/sizzle/spring_2014#pg8.



Houle

DAWN HOULE '94, North Potomac, Md., welcomed her second child, Madzi Galeah Booth ["Flower" in the Tsimshian language], in May 2013. Dawn, originally from the Rocky Boy Indian Reservation, currently is the chief of staff for the National Indian Gaming Commission in Washington, D.C. She and her spouse, Milo J. Booth, also have a seven-year-old son named Parker.

AARON MICHAEL WILLIAMS '94, Olympia, Wash., graduated from the law school at Seattle University in 2012. He currently is employed as an attorney in the Attorney General's office for the state of Washington.

JOHN MCKEE '97, Butte, and his wife, Courtney McKee, were named 2013 Montana Entrepreneurs of the Year by the Montana



DAVE DICKENSON '96, Calgary, Alberta, is offensive coordinator and assistant head coach for the Calgary Stampeders of the Canadian Football League. Dave, a Great Falls native who led the Grizzlies to the 1995 NCAA Division I-AA national championship, joined the Stampeders as quarterback in 1996, and was named the CFL's most outstanding player in 2000. After five years playing for the B.C. Lions, whom he led to the 2006 Grey Cup championship, Dave has run Calgary's offense for the past three seasons.



TRISHA KYNER, M.F.A. '97, Gwynn Oak, Md., created a sculpture titled *Pink Rabbit* for New Orleans with her husband and fellow artist, David Friedheim. Standing eight feet tall and ten feet long, the public art piece is one of several large sculptures lining Poydras Street and one of several sculptural bunnies built by Trisha and David in cities around the country.



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LETTER FROM THE MEMBERSHIP CHAIR



My wife, Dianne, and I met fifty-three years ago as students at the University of Montana. Twelve years ago, we became dual lifetime members of the Alumni Association. Our University has played such an important part in shaping our relationships and furthering our careers, and membership in UMAA is an effortless way to show our gratitude and support.

We've enjoyed the benefits of membership through the years, from publications that keep us informed about the worldwide Griz community to the opportunity to form new friendships

with other alumni. It wasn't until I began volunteering as a UMAA board member, however, that I realized the true importance of membership. I've learned about the inner workings of the Alumni Association and how the dues paid by members help connect more former students to UM.

Here are a few of the things UMAA members' dues accomplished last year:

- Thousands of Grizzlies gathered at hundreds of alumni events around the country, including nearly ninety Griz/Cat satellite parties.
- Legacy Scholarships were awarded to four deserving students whose parents or grandparents attended UM.
- The Student Alumni Association more than doubled its membership in its second year and continues to increase student engagement and stewardship.
- Alumni created regional groups to coordinate social and networking events.
- The inaugural group of Montana Treasures returned to campus for its fiftieth class reunion, and alumni of all ages stood together on the field of Washington-Grizzly Stadium during Commencement.
- Nearly 10,000 Griz fans gathered for the Homecoming Parade, and alumni, students, and community members celebrated with a full week of Homecoming events.
- Five Distinguished Alumni were awarded for their outstanding accomplishments, and the Montana Alumni Award recognized a friend of UM for extraordinary service to the University.
- The sixteenth annual Community Lecture Series brought hundreds of alumni and community members to campus to learn from talented UM faculty.
- The House of Delegates was revitalized, allowing alumni representatives to advise and assist UMAA in its outreach programs throughout the U.S. and Canada.

As a member of UMAA, you receive 20 percent off your purchase during Homecoming Week at The Bookstore at UM, access to Griz e-Recruiting and UM Career Services, discounts on alumni events, and many more benefits.

But after years of UMAA membership, Dianne and I can promise that the best rewards are the enriching relationships with UM and many other alumni. Join today to support UMAA!

Thank you for your support, and Go Griz!

Ken Lawrence '63

Chair, UMAA Planning and Membership Committee

John & Courtney McKee were named 2013 Montana Entrepreneurs of the Year '97

Ambassadors and Gov. Steve Bullock. Their business, Headframe Spirits in Butte, has created one job for each month it's been open since February 2012.

MOLLY WOOD '97, San Francisco, Calif., is the new deputy technology editor for *The New York Times*. Molly previously was the executive editor and TV host for CNET.

ELDENA BEAR DON'T WALK '98, J.D. '03, M.P.A. '06, is the interim director of American Indian Student Services at the University of Montana. Eldena holds a Master of Laws in indigenous people's law and policy with a focus on critical race theory from the Rogers College of Law at the University of Arizona.

SHARI STUTZ STRACHAN '98, Missoula, is the executive director of Mountain Home Montana, a nonprofit organization in Missoula providing

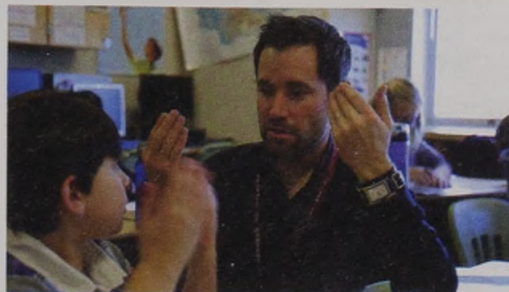


Strachan

housing, supportive programming, and mental health services to young mothers and their babies.

For the past ten years, Shari was the director of operations at United Way of Missoula County.

JAMES LINCOLN '99, Boulder, Colo., was selected as one of ten runners to participate in Race Across USA, a 3,000-mile footrace—or a marathon a day for 140 days. The race begins in Huntington Beach, Calif., on January 16, 2015, and continues through thirteen states and Washington, D.C. Funds raised will



AARON HOLMBERG '98, Lake Stevens, Wash., received the 2013 Golden Apple Award, celebrating Washington teachers for their positive impact on students. The honor recognizes Aaron's work as a fourth-grade teacher with Everett Public Schools. A 2008 National Board Certified Teacher, Aaron is known for his collaboration, innovation, and drive to inspire students to reach high personal and academic standards, especially in the areas of math, science, and history.



Lincoln

benefit the 100 Mile Club based in Norco, Calif., an organization that battles childhood inactivity by challenging school-aged kids to run 100 miles per academic school year.

Christopher teaches at the College of St. Benedict and St. John's University. He has earned fellowships from the James A. Michener Foundation and the MacDowell Colony and holds an M.F.A. from the University of Iowa Writers' Workshop.

JANELLE KUECHLE, M.Ed. '01, Polson, fondly remembers spending time, both in class and after, in the old house on Eddy Street in the late nineties and early 2000s. "We'd sit around in the living room talking about theories and how we might apply them

James Lincoln was selected as one of ten runners to participate in Race Across USA, a 3,000-mile footrace '99

CAELI WOLFSON WIDGER, M.F.A. '99, Santa Monica, Calif., published her first novel, *Real Happy Family*. Caeli's work has



appeared in *The New York Times Magazine*, *Another Chicago Magazine*, and the *Madison Review*. She currently teaches for Writing Workshops Los Angeles and has taught for Brooklyn's Sackett Street Workshop and at the University College in London.

2000s

CHRISTOPHER BOLIN '00, St. Joseph, Minn., published a book of poetry, *Ascension Theory*, with University of Iowa Press.

to help others, but also to grow in our own lives. These talks were as much a part of our education as the formal course work, and the memories are priceless. Thanks, UM, for such a wonderful educational experience!"

JOHANN WALKER '01, Mandan, N.D., is the Ducks Unlimited director of conservation programs for North Dakota, South Dakota, and Montana. A leader of research efforts on waterfowl breeding ecology for DU's Great Plains Region for the past three years, Johann is recognized as one of the top waterfowl population ecologists in the country. After earning his bachelor's degree with honors in wildlife biology at UM, he received his master's and doctoral degrees from the University of Alaska, Fairbanks. Johann grew up in Minnesota and Montana and is an avid outdoorsman.



Zuccarini

ANTHONY ZUCCARINI '01, Columbia, Mo., is communications coordinator and Web administrator for the Missouri State Teachers Association, the oldest teachers association in the nation. For the past ten years Anthony has worked for the state of Missouri. He and his wife, Aileen, have three boys.

LEA TADDONIO '03, Santa Cruz, Calif., this August will publish *Upside Down*, the first in her adult fiction debut series, *Off the Map*. You can read more about Lea's work at www.liariley.com.



Taddonio

RYAN ARNOLD '04, Evanston, Ill., is divisional wine director for Lettuce Entertain You Enterprises in Chicago, where he develops various wine programs and educates guests at restaurants such as RPM Italian, Paris Club, and HUB 51. As a member of the NBC Olympic hospitality team, he participated in NBC's Client program for the Athens, Torino, Beijing, Vancouver, and London Games. Previously, Ryan worked as regional

manager for Italian wine importer Vin Divion and opened Winebow Import Company's Chicago branch. His education in wine began as a student at UM with his studies abroad in Torino and Rome.



Hammond

JEFF HAMMOND '04, Santa Cruz, Calif., co-owns Sun + Life Photography with his wife, Dorian Westernman. Last year, *RangeFinder Magazine* selected their business as one of the "30 Rising Stars in Wedding Photography." Jeff and Dorian began their careers with documenting the work of NGOs in Central America and founded Sun + Life in 2010. You can read more about their work at www.sunandlifephotography.com/blog/.

SCOTT NICHOLSON '04, Bozeman, is a commercial loan officer with First Interstate Bank. Scott also serves as treasurer of the board of directors for the Boys and Girls Club of Southwest Montana, member of the finance committee on Thrive's

board, and member of the Bozeman Revolving Loan Fund. He and his wife, Nancy, have a one-year-old daughter.



Nicholson

BEN THOMAS '04, Taos, N.M., was named the new executive director of the Rocky Mountain Youth Corps, effective this fall. Ben began working for RMYC in 2004 as an AmeriCorps member on a sustainable forestry crew and served as program director before taking over for Carl Colonius, director of the corps for the past twenty years. RMYC has a strong foundation in conservation and weatherization work and uses projects as the classroom for technical training, job employment certifications, and personal/professional development. Ben is excited about his new leadership with the agency and looks forward to providing opportunities for young adults in Taos.



Thomas

ROBIN JOHANSON, D.P.T. '05, Albany, Ore., is manager of Samaritan Rebound Physical Therapy in North Albany.



Sherburne

JESSIE SHERBURNE '05, Boise, Idaho, completed a master's degree in raptor biology at Boise State University. She currently is an adjunct faculty instructor at BSU and the College of Western Idaho. **ANNA CHALFOUN**, Ph.D. '06, Laramie, Wyo., was honored with a Presidential Early Career

Anna Chalfoun was honored with a Presidential Early Career Award for Scientists and Engineers '06

Award for Scientists and Engineers, the highest honor bestowed by the U.S. government on science and engineering professionals in the early stages of their independent research careers. Anna, who earned her doctorate in fish and wildlife biology at UM, is the assistant leader of the Wyoming

Cooperative Wildlife Research Unit at the University of Wyoming. **DANIELLE R. DELLERSON** '06, J.D. '10, Alexandria, Va., is vice president for federal government relations at McGuireWoods Consulting in Washington, D.C. She works closely with former Senate Finance Committee



Dellerson

Staff Director Russ Sullivan and three fellow Montanans who are on staff. Previously, Danielle worked for former Sen. Max Baucus on the Senate Finance Committee.

ALEX STRICKLAND '06, Missoula, is the new assistant publications director for the Adventure Cycling Association in Missoula. Previously, Alex was editor-in-chief of the *Bigfork Eagle* and worked for Soar Communications in Utah.

IAN CLARK '07, Portland, Ore., released online his third feature-length project during the Eastern Oregon Film Festival in February. *MMXIII*, an experimental documentary self-portrait exploring time, light, cinema, and beauty, premiered at the 2013 New



ALUMNI EVENTS 2014

MAY

- 7 Senior Send-off
- 15-17 Commencement, Montana Treasures Reunion, and All-Alumni Celebration

JUNE

- 16-24 Mediterranean Cruise with Royce and Mary Engstrom

JULY

- 17 Alumni gathering at Flathead Lake
- 30 10th annual UM Night with the Missoula Osprey

AUGUST

- 21- SEPT. 1 Baltic Treasures Cruise

SEPTEMBER

- 21 Homecoming Kickoff Celebration, Southgate Mall
- 24 UM residence hall and office decorating contests
- 25 House of Delegates annual meeting
- 26 Hello Walk painting, Turner Hall
- UM department open houses and receptions
- Distinguished Alumni Awards ceremony and reception
- Pep Rally, Oval
- All-Alumni Social and Dance, Holiday Inn
- 27 Seventh annual Homecoming Hustle – 5K race
- Homecoming Parade
- Alumni Outdoor Tailgate at Homecoming
- Montana Grizzlies vs. Northern Colorado Bears
- 28-29 UMAA Board of Directors meeting, Missoula

OCTOBER

- TBA Alumni signature events

NOVEMBER

- 7-15 Pearls of the Mediterranean Cruise
- 22 114th Griz/Cat football game, Missoula

For more details, call the Office of Alumni Relations, 877-UM-ALUMS or visit www.grizalum.com.



Norby

LAUREN TYLER NORBY '06, Missoula, earned his Master of Fine Arts from the University of California, Santa Barbara. This past March, he held an interactive multimedia exhibition at the Brink Gallery in downtown Missoula. As part of *Crumley & Vaughn Private Investigations*, gallery-goers had their fingerprints inked and displayed and investigation developments unfolded in real time during the course of a month, both within the gallery and around the city. Holding nothing sacred, Lauren mixes and pollutes elements from Western society to challenge and critique entrenched beliefs through a variety of art forms, including video, installation, and performance.

Orleans Film Festival as part of *Cinema Reset* and was released around the world by Internet tour in early 2014. Clark jointly curates both the Eastern Oregon Film Festival in La Grande, Ore., and the Treefort Film Fest in Boise, Idaho, and was



named one of *Filmmaker Magazine*'s "25 New Faces of Independent Film" in 2012. View his work at <http://incproductions.org>. **CRAIG REINHARDT** '07, Missoula, is head coach of the Missoula Bruins

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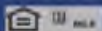
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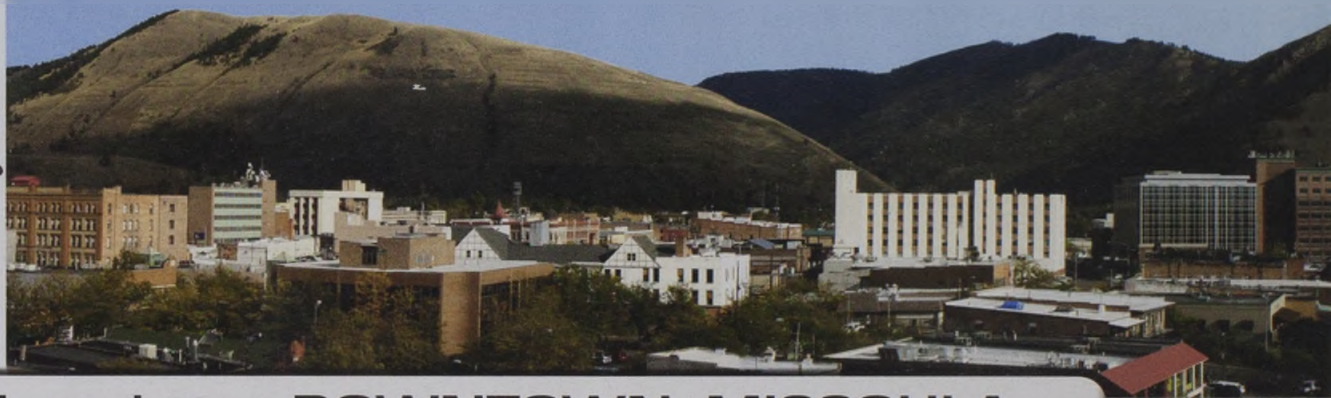


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Monte Dolack, Smith River in June ©2014

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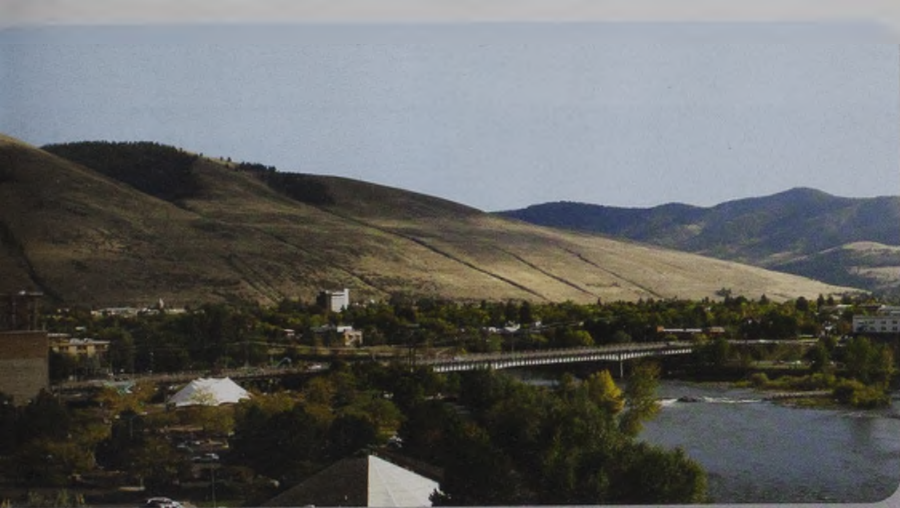
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Image: Nicholas Galanin, *Things Are Looking Native, Native's Looking White* detail, ca. 2012, digital photography, 48 x 36 inches, Courtesy of the artist

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Image: Sandra Dal Poggetto, *American Fork #4* detail, ca. 2010-11, oil, oil pastel, charcoal, graphite, buckskin dangles on canvas, 83 1/2 x 79 1/2 inches, Courtesy of the artist



1914 CENTENNIAL 2014
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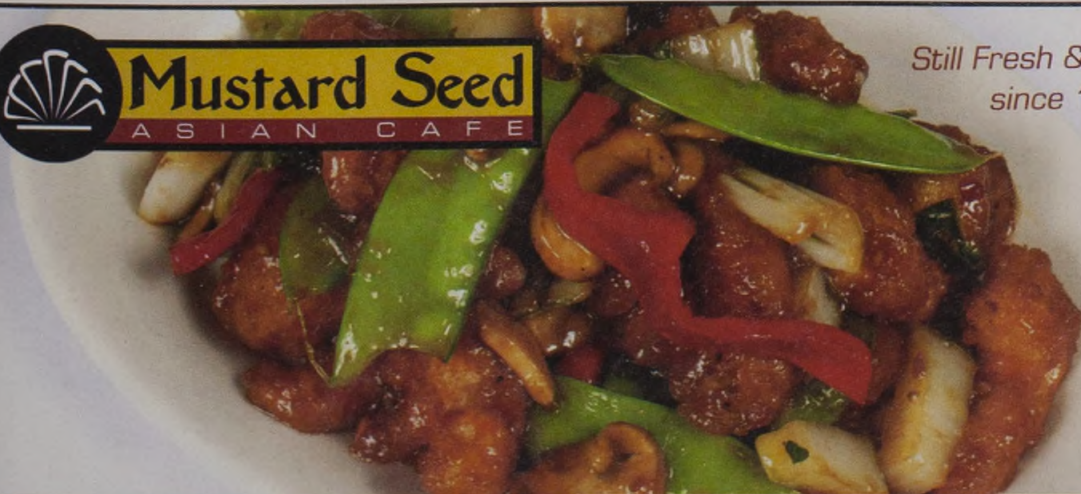
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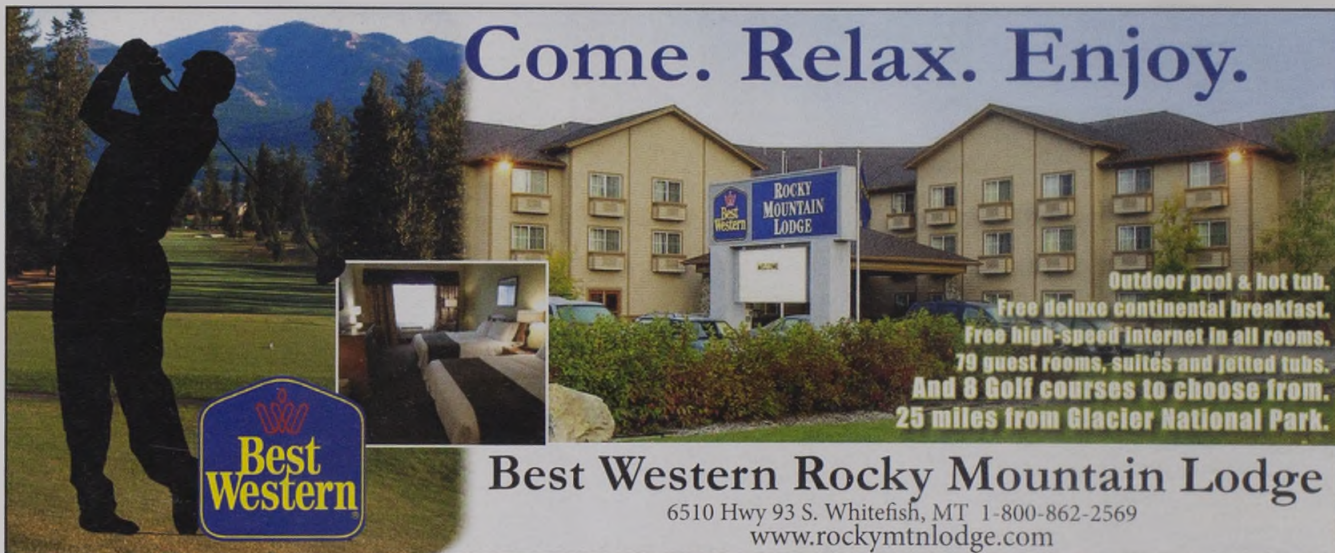
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▲ George Gogas, *Judith Basin Encounter*, MAM Collection.

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- 3 Montana Superintendent of Public Instruction Denise Juneau, first Native American elected to a state office
- 4 Judy Martz, first female governor of Montana
- 5 Jeannette Rankin, first female elected to Congress
- 6 Maggie Smith Hathaway, one of the first two women elected to the Montana Legislature
- 7 Jane Jeffers, first elected female president of the Associated Students of UM

BY JOHN HEANEY '02

"What is Man?" the flier ponders. "What are Husbands?"

"Man is an Atom," it answers. "Husbands are Tyrants."
 "Down With Man!" it exclaims. "Away with the Tyrant!"
 "Be one of us, not a weak sister!"

The flier, which is chock-full of other racy-for-the-time language, is from September 1914, shellacked and stuffed into a scrapbook kept by Stella Louise Duncan, a Glendive native and student at UM from 1904 to 1907. Her scrapbook now resides inside UM's Archives & Special Collections at the Mansfield Library.

"You can tell from Stella's scrapbook that she is really interested in what's going on in the world around her," says Carlie Magill '03, M.A. '08, an archives specialist.

The flier is especially telling of the time, as women in Montana and across the country were fighting for the right to vote. Just a couple months after Duncan obtained the flier, woman suffrage passed in Montana on November 3, 1914.

"Things like the flier aren't made to last," Magill says. "So the fact that she happened to shellac it and save it in her scrapbook is pretty awesome. I've done some searching, and I've yet to find another one of these. It's not something that was meant for someone to keep. You were probably supposed to pick it up at a rally and throw it away, but she kept hers."

A century later, the flier is a focal point of a new exhibit at the library, *Women in Montana Politics*. It features photographs and documents from well-known early twentieth century suffragists Jeannette Rankin and Ella J. Knowles Haskell, along with information on contemporary activists and politicians such as Juliet Gregory, Missoula's only female mayor, and Lorena Burgess, a Confederated Salish and Kootenai Tribal Council member.

Magill and fellow Archives Specialist Kellyn Younggren spent nearly three months curating the exhibit, which is featured in display cases on the fourth floor of the library, as well as online. The genesis of the exhibit was

to explore woman suffrage in celebration of the centennial but expanded to acknowledge the entirety of women in Montana's political realm.

While there were many fascinating discoveries in the pair's search through the archives, there is one woman in particular who is their favorite: Mary Stewart, UM's first dean of women.

"She comes to UM in 1907 and is quite the rabble-rouser," Magill says, as if speaking about an old friend. "As the first dean of women, you might think that she just would be making sure all of the girls on campus were in the dorms by their curfew or baking cookies. That was not Mary."


From what they learned, Stewart was instrumental in organizing suffrage groups on campus and led girls to major rallies at the Wilma Theater, where Rankin spoke.

"She was quite the leader of girls on campus," Younggren says. "She was interested in getting them politically active. And it showed, because there were these great suffrage groups that grew on campus that really attempted to fight for their rights at UM before they could even vote in the state."

"Mary was very near and dear to us," she adds.

Another woman whom they found interesting was Florence Leech, a 1912 UM graduate from Valier. Leech, who was called "one of the most capable and most earnest among the women who led Montana's suffrage campaign" in a December 1914 *Montana Farmer* article, was sought by women in New Jersey to help them with their campaign.

"So here is this girl from Montana who graduates and continues to do suffrage-related work clear across the country," Magill says. "She was sent to New Jersey to rile up the crowds and fight for women. That's pretty great."

The flier, Stewart, and Leech are just a sampling of the fascinating history represented in *Women in Montana Politics*. The exhibit will be on display through September. To learn more, visit the library or go online to <http://exhibits.lib.umt.edu/women-in-politics>. 



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**MONTANA
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Extended Learning

.....MOLLI *breathes*

NEW LIFE

into continuing education

at **UM**

STORY BY BESS PALLARES
PHOTOS BY TODD GOODRICH

In the final stretch of spring semester, classrooms across the UM campus are packed. Students and faculty prepare for finals, graduation, and the end of another year. But the peals of laughter ring so loudly from one classroom in the James E. Todd Building that the students within couldn't possibly be concerned with a test or their grades.

And they're not. The class is Improvisation: A Great Anti-Aging Device! and the twenty-four community members inside—all age fifty or older—are having a marvelous time acting out instructor Margaret Johnson's ice-breaker activities.

Roger Maclean is dean of the UM School of Extended and Lifelong Learning, which houses the Montana Osher Lifelong Learning Institute. MOLLI is the only Osher Lifelong Learning Institute in Montana, offering diverse, noncredit courses to community members age fifty or older.



Groups work together to form a "picture" of a fried breakfast, a washing machine, and a clock. They perform short, impromptu scenes between movie stars and their adoring fans, teenagers pleading with a police officer to not turn them over to their parents, or lawyers and clients having a tense conversation after a lost trial.

"There's one thing about improv," Johnson yells out encouragingly as the group tries their latest scene: forming a La-Z-Boy recliner out of about five people and classroom materials. "There's no right way or wrong way to do it. There's usually a more interesting way, or a more creative way."

The class is offered through the Montana Osher Lifelong Learning Institute at UM, better known as MOLLI. Operated through UM's School of Extended and Lifelong Learning and partially funded by a \$1 million endowment from the Bernard Osher Foundation, the program offers a wide range of noncredit, ungraded classes during three terms each year to community members age fifty or older.

MOLLI stands out on campus, not only because of its unique course offerings or nontraditional roster of members, but also because continually growing enrollment numbers have highlighted the program as a popular connection between UM and the community.

The courses are taught by UM faculty, emeritus professors, and professionals in the community. With courses covering everything from fine art to science, MOLLI members keep coming back and spreading the word to their friends. The program now has more than 1,100 members.

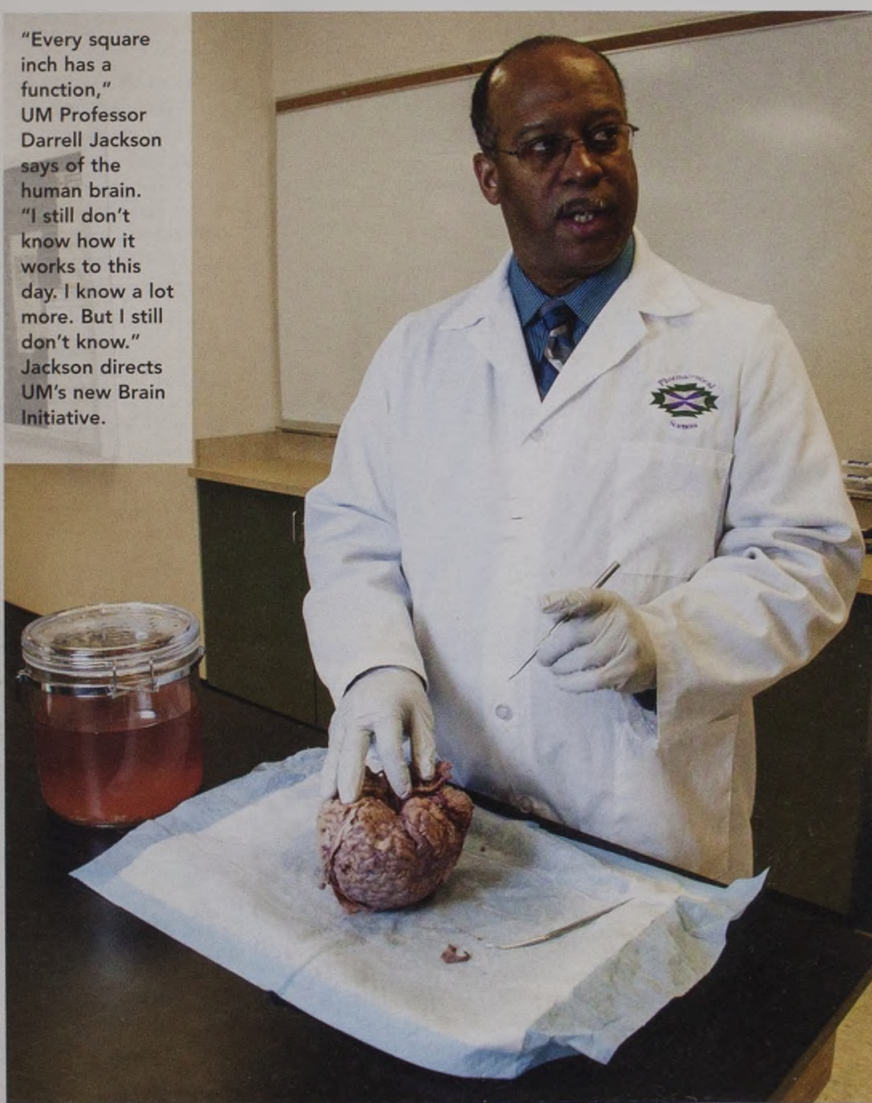
MOLLI is the only Osher Lifelong Learning Institute in Montana. It began in 2006 with a push from a passionate corps of community members, and received three \$100,000 operating grants from the Bernard Osher Foundation before receiving the full endowment.

"We're not able to spend from the \$1 million," says Roger Maclean, dean of SELL. "We get an annual interest payment of about \$60,000 in operating funds."

Twenty to twenty-four courses are offered each term, and they are open only to MOLLI members. Members pay an annual fee of \$20 and then \$60 per class. Additional benefits include privileges from the Maureen and Mike Mansfield Library, a discount at The Bookstore at UM, and access to an array of special events through the program, among others.

MOLLI is run by Maclean, a full-time program manager, and a volunteer advisory council composed of twelve members. Many council members serve on other MOLLI committees and also are MOLLI

"Every square inch has a function," UM Professor Darrell Jackson says of the human brain. "I still don't know how it works to this day. I know a lot more. But I still don't know." Jackson directs UM's new Brain Initiative.



But more than anything, the Brain Initiative exposes just how diverse UM's brain research is. It turns out Jackson's fascination is shared by professors in all corners of campus—from laboratories in the Skaggs Building to clinics at Curry Health Center to the stages of the College of Visual and Performing Arts. Our brains are responsible for everything we do, think, or perceive. So it stands to reason that faculty from vastly different disciplines approach it with angles all their own.

Sarj Patel and Tom Rau's angle is concussions. Earlier this year, the two UM research professors received a competitive \$300,000 grant from the National Football League and GE's Head Health Challenge, a \$10 million venture to support brain injury research. Patel and Rau study proteins in the brain and microRNA molecules in the blood that may indicate the existence and severity of a traumatic brain injury. Today, the standard test for a concussion is a panel of questions that a coach might ask of a player, for example, on the sideline of a football game. The resulting diagnoses are inconsistent and poor at detecting low-level injuries. Patel hopes that team medics may eventually be able to draw a player's blood, check it for the biomarker molecules, and determine if he has a concussion and how bad it is. Patel and Rau have studied these proteins in rats, and also in human blood and brain tissue, thanks to partnerships with the emergency room at St. Patrick Hospital and the Center

for Traumatic Encephalopathy at Boston University. Patel says they've been discussing a collaboration with UM's athletic department, too.

In and out of the lab, Patel and Rau share an earthy appreciation for the focus of their research. "Your brain is basically like a formed piece of fatty Jell-O suspended in a protective water bath," Rau says. But for humans, our biggest biological advantage—a large brain—also is a liability. A head still has to be small enough to fit through the birth canal, Rau explains. In order to maximize brain size, our skulls are thinner than most primates.

"You hit a gorilla on the head with a sledgehammer, and they'll just stare at you," Rau says. "Before they kill you."

The human brain is a bit more fragile, and Patel and Rau are busily applying theirs to better protect ours. In the process, they're putting UM on the brain research map alongside larger institutions.

Under Jackson's directorship, the initiative will set up a website to educate Montanans on the brain research happening on campus. It will reach out to the community through exhibits in spectrUM Discovery Area's children's science center, for example, where Jackson hopes kids like he was will be inspired to pursue careers in neuroscience. The initiative also will establish an undergraduate degree in neuroscience, which student surveys show will have high demand. And in March, the Board of Regents approved a new Neural Injury Center to help students with traumatic brain injuries access services across campus.

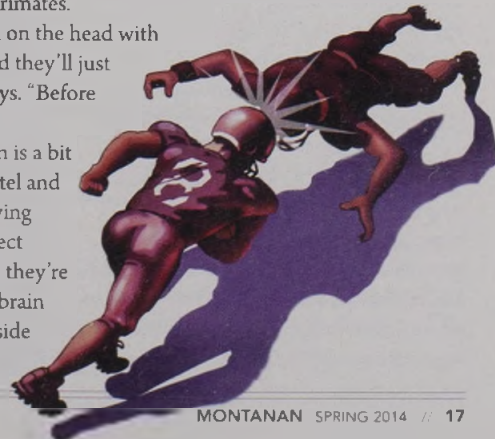
"Through this Brain Initiative," Brown told an audience on UM's Charter Day, "we'll bring together people from across campus to expand the research we have."

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alumni profile

**Renée Haugerud
turns lessons
learned at UM
into unique
success on
Wall Street**



Renée Haugerud graduated from UM in 1980 with a forest resource management degree. She now runs Galtere, Ltd.

"Growing up and hearing about how so many of these things are threatened made me want to step in and do something," Ryan says. "Water is everywhere. Everything on Earth requires water to live. What are we going to do if there's no one to protect this resource? We typically don't value things until they're gone, and I don't want that to be the case with things I hold so dear."

Though he was clear on how he felt about the natural world, he wasn't sure at first what to do about it. Ryan enrolled at UM in 2003 as an undergraduate. Like so many students who don't know what they want to study, he spent his first few years in college a little lost. He dropped out of school for a time to work, and when he returned, he dove back into his studies full force, graduating with honors in geography and enrolling in graduate school to study forestry with an emphasis in hydrology.

A major factor leading to his change of direction in college was UM's Native American Research Lab, then directed by Michael Ceballos.

"At the time, the objective was to bring Native Americans into the STEM fields and involve them in the lab to get them some research experience," Ryan says.

Ceballos ran NARL for four years and had a big impact on Native American, indigenous, and other graduate students who used the lab. When Thomas was hired as Ceballos' replacement in 2012, he latched onto the same mission but took it in a different direction. These days, it's called IRSE, and it's not so much a physical lab as it is an education program and network. Currently, five Native American students working in fields such as forestry, biochemistry, and anthropology meet each month at The Payne Family Native American Center to talk about their research. Those students also have opportunities to apply for grant money and help Thomas do outreach

on reservations. Thomas often serves as a member of thesis committees and as an adviser in situations both academic and personal.

"I wouldn't know that there are other Native Americans engaged in the sciences at UM if we didn't have the opportunity to come together," Ryan says. "It's great to have that social connection. It's great to have those academic connections and even foster those someday into professional connections."

Ryan currently studies snowpack distribution and how it melts. He also has an internship with the U.S. Fish and Wildlife Service.

"The mission statement is to preserve, protect, and enhance fish, wildlife, and their habitats for the continuing benefit of the American people," he says. "That is very close to my heart. It's something I feel is important and that I'm proud of. I am also attracted to the idea of bringing home this skill set to my reservation, which is the Flathead Reservation, and using it to protect the resources we have. I want to make a difference."

UM hydrology graduate student Casey Ryan conducts fieldwork in the Lubrecht Experimental Forest in April.



PHOTO COURTESY OF CASEY RYAN

Imogene Zuercher Hansen, M.A. '49,
Terre Haute, IN
Victor Daniel "Dan" Pearson '49, J.D. '50,
Boise, ID

1950s

John Francis Dunning '50, Tucson, AZ
Arthur S. Greene Jr. '50, Denton, TX
Joseph C. "Joe" Heimes, J.D. '50, Great Falls
Arthur McLeish Jordan '50, Mesa, AZ
Robert Walter "Bob" Moran '50, M.A. '51,
Red Lodge
William Merrill "Buck" Preuninger '50, M.Ed. '61,
Great Falls
Veronica Kreitel Sikorski Richards '50,
Belle Fourche, SD
Ralph Theodore Anderson '51, Helena
Carol Rosabel Fraser '51, Billings
Richard Francis Theodore "Dick" Kulawinski '51,
Missoula
Janet Ferguson Monsos '51, Missoula
Clarence Darrow "C. D." "Bud" Beagle '52,
M.Ed. '59 Missoula
Charles Edward "Charlie" Crookshanks '52,
Missoula
John Gilley "Jack" Davis '52, Cibola, TX
Harold G. Knapp '53, M.S. '57, Polson
Robert Duane "Bob" Haight '54, Bozeman
Marieanne D. Carroll Hanser '54, Billings
Donald Martin "Don" Rees '54, Sidney
Howard John Ruppell '54, Miles City
Robert Melville Black '55, Worland, WY
Warren Elliott Kobelin '55, Bellevue, WA
Alvin Bernard Soares '55, M.Ed. '59, Wailuku, HI
John Arthur Swanson Jr. '55, Pendroy
Jesse Owen Bye '56, Hutchinson, MN
Bobby Charles Miles '56, Missoula
Reuben George Miller, M.A. '56, Sweet Brian, VA
Charles Woodrow "Woody" Achauer, M.S. '57,
Hideaway, TX
Verna M. Gertz Miller '57, M.A. '58, Portland, OR
Loren Floyd Smith '57, Santa Fe, NM
Robert Lucian "Bob" Smith '57, Billings
Donald Vincent Sward '57, M.A. '58,
Longmont, CO
Raymond Crump Howard '58, Helena
George Knapp '58, Missoula
John Williams McDonald Jr. '58, J.D. '61, Missoula
Carl R. Hilliard '59, Commerce City, CO
Darrell Y. "D.Y." Lininger '59, Torrance, CA
Emil Ponich, M.A. '59, Billings
Pauline Marie "Paulie" Schneider Ragan '59,
Anacortes, WA
Sam B. Ragland Jr. '59, Dublin, OH
Larry Allen "Shag" Schulz '59, M.Ed. '64,
Sheridan

1960s

John Albert "Jack" Eddlemon '60, Great Falls
Philip H. "Phil" Ruff '60, Kellogg, ID
Charles Patrick "Charlie" Graham '61, Missoula
Hazel Louise Schettler Schell, M.Ed. '61 Billings
Robert Walter "Bos" Bosworth '62,
Bonners Ferry, ID
Donald L. "Don" Klapwyk '62, Darby
Leroy David Limpus '62, New Boston, TX
Richard Leroy "Dick" Stahl '62, Billings

George M. Fusko '63, Decatur, MI
Vivian Hageland Toepfer '63, M.Ed. '70,
Yachats, OR
John Alan Ross '64, Spokane, WA
Laura Gena Tolina Ottos Graff '65, Missoula
Michael Allen "Mike" Oke '65, M.A. '70,
Caldwell, ID
Patrick Charles "Rick" Sweeney '65, J.D. '68,
Billings
William Arthur "Bill" Pedersen '66, M.I.S. '03,
Missoula
Larry Douglas Foust '68, M.Ed. '78, Missoula
Regina Harriet "Bobbie" Garmoe Presthus '68,
Missoula

1970s

William Charles "Bill" Campbell, M.Ed. '70,
Seaside, OR
Susan Higgins Musial '70, Lafayette, IN
Vivienne Taide Blake '71, Missoula
Bernard Gulbran "Bernie" Hilde '71, Eagle, ID
Jule Harry "Jake" Jacobson '71, Plentywood
Kenneth Allen "Ken" Marcure '71, Kyoto, Japan
Alva Lucille "Lucy" Adams Wiggins '71, M.Ed. '82,
Missoula
Willard Bruce "Will" Wylie '71, Las Cruces, NM
Linda Kaye Smith Walters Augustine '72, Billings
Joel Philip Kleinman, M.A. '72, Meriden, CT
David Michael Kuhns '72, Seattle
Roberta Johnson Everard Manis '72, Missoula
Daniel Francis Patrick "Dan" "Danny" Walsh '72,
Las Vegas
Curtiss Carl "Curt" Matt '73, '96, Perma
Mary Agnes Coyle Beery, M.Ed. '75, Bozeman
Christine Lynn "Chris" Barrow Maristuen '75,
Havre
Margaret Ruth Poore '75, Helena
Stephen J. "Steve" Caputo '76, Kent, WA
Paul J. Holkup '76, Buffalo, WY
Alvin Norman Lien '76, Livingston
Susan Hanson Parkes Mullins '76, Simi Valley, CA
Michael Thomas "Tom" Tanna '76, Missoula
Stephen Downey "Steve" Huntington '79,
M.A. '08, Butte

1980s

Alice Patricia "Pat" Patton Orman '81, Laurel
Alma Isabelle Newell Robertson '82, Missoula
Charlene Frances Spillum '82, Gilbert, AZ
Olan Carroll Blythe '83, Columbia Falls
Mark Henry Heller '83, Stevensville
Ryder Lee White Hip Sr. '83, Lodge Grass
George Raymond Orr '84, Anaconda
Bruce Takeshi Burk '86, Lolo
James Reeves "J.R." Dillon '87, Kansas City, MO
Mark Robert Ziegler '87, Missoula
Darrell B. Ziesemer '87, Missoula
Angela Mary Somerville Wanamaker '86, Seattle

1990s

Elizabeth Jane Bergman, M.A. '90,
Columbia, MO
Mabel Lou Halverson Anno '90, Missoula
Delmer Dean Zuehlsdorf '94, Florence
Travis Cord Anderson '97, Missoula
John Benjamin Smithers '97, Beaverton, OR
Laura Jean Kelly '97, Missoula

2000s

William John "Bill" Beckwith '00,
San Francisco, CA
Lisa Ann McLaughlin Ratcliffe, M.Ed. '01, Lolo
Wesley Kip "Wes" West '02, Stevensville
Debra Susan Johnson-Benton '06, Lewiston

Robert Lindsay "Bob" Anderson, South Lake
Tahoe, CA
Enid Davis Lake Avery, Missoula
Anne Agnes Stiegler Benson, Missoula
Wayne Joseph Black, Polson
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Donna Burke Dalton, Missoula
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Ann Stone Day, Newcastle, ME
Ruth M. Smith Denton, Deer Lodge
Charles E. "Chuck" Douglas, Missoula
Aubrey Koefod Dunkum, Missoula
Charles H. "Chuck" Duus, Hamilton
Marjorie "Jeane" Ashley Fevold, Missoula
Eleanor Alice DeWit Fialka, Missoula
Murel Haas, Venturia, ND
John Clifford Hahn, Bonney Lake, WA
Richard Lee Hammel, Harlowton
Joseph Robert "Bob" Hauck, Missoula
Johna McNeill Henningson, Missoula
Joseph Ellington "Joe" Hightower, Missoula
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Jerome "Jerry" Kosovich, Billings
Eric Joseph Larson, Missoula
Lorena Nancy Sanders Lawson, St. Ignatius
Bjorn Lund, LaCrosse, WI
Lynette Louise Solomon McBroom, Monroe, WA
Alice Irene "Honey" Hork McGee, Lexington, KY
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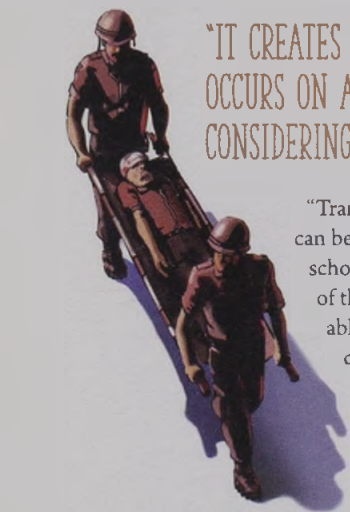
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Research Professors Sarj Patel, left, and Tom Rau study proteins in the brain and microRNA molecules in the blood that may indicate the existence and severity of traumatic brain injuries.

Opposite: UM student and Big Sky Aphasia Program volunteer Jenny Silvernale works with Helga Vinso, a patient at the clinic.



"IT CREATES THIS FORUM FOR PEOPLE WHO HAVE SIMILAR INTERESTS. THAT IT OCCURS ON A CAMPUS WITH A LONG TRADITION OF LIBERAL ARTS IS FORTUITOUS, CONSIDERING THAT THE BRAIN HAS RIGHT AND LEFT HEMISPHERES."

"Translating basic science research to the clinic can be difficult when we don't have a medical school," Rau says. "But with the cooperation of the University and local hospitals, we're able to move our findings from the lab into clinical research."

Traumatic brain injury isn't limited to football, of course.

Three floors down from Rau and Patel, Reed Humphrey just received approval to create a Neural Injury Center to help

veterans and other students with brain injuries access the resources they need to cope with their disabilities and make the most of their time on campus. The center is especially relevant in Montana, a state with the second highest per capita rate of brain injury in the country.

Before coming to UM, where he chairs the School of Physical Therapy and Rehabilitation Science, Humphrey treated patients at the VA Medical Center in Richmond, Va., while on faculty at Virginia Commonwealth University.

"I really got an appreciation for the hardships veterans face reintegrating into society," he says.

In addition to PTSD, many veterans return with some degree of traumatic brain injury, often incurred from an improvised explosive device. Through the Neural Injury Center, Humphrey hopes to create a more supportive environment for veterans on campus.



Reed Humphrey

"The goal is to serve those who have served us," he says.

The NIC's first task is to create an interactive Web presence, which Humphrey is doing in collaboration with the School of Media Arts. The website, which he expects to launch this summer, will engage students who have experienced a brain injury, directing them to campus services that tend to their physical and emotional health, their family life, career opportunities, and education.

"The idea is to create a campus that is welcoming to people with a disability," Humphrey says. "If we do this right, we'll attract students throughout the region and nationally."

The NIC brings form and function to the Brain Initiative, Humphrey says. In turn, the initiative has introduced Humphrey to pockets of brain research going on around campus that he wouldn't have known about otherwise.

"It creates this forum for people who have similar interests," Humphrey says. "That it occurs on a campus with a long tradition of liberal arts is fortuitous, considering that the brain has right and left hemispheres."

If the neuroscience labs of the Skaggs Building represent the left side of UM's brain research, the right side of that research can be found in Jillian Campana's comfortable office in the College of Visual and Performing Arts.

Campana teaches acting and directing classes, but her true interest is applied theater—using drama to promote social justice, therapy, or rehabilitation. Her specialty



varsity hockey team. For the past six years Craig coached for Missoula's youth hockey program.

NICOLE SIEFERT, J.D. '09, Missoula, recently joined the law firm of Sullivan, Tabaracci and Rhoades, where she primarily practices commercial and civil litigation. Previously, Nicole practiced in federal and state courts in Nevada and Montana. While attending UM, she was a proud member of the ABA Negotiations Team,



Siefert

president of the American Association for Justice, and an intern for Montana Legal Services and the Missoula County Attorney's Office. **ORRIN TIBERI** '09, Helena, recently returned from Ecuador, where he worked as a Peace Corps health volunteer.

In 2013, Montana ranked tenth among states with the highest number of Peace Corps volunteers per capita.

2010s

JOHN HOLLENBACK, Hon.D. '10, Gold Creek, is the co-recipient of the 2013 Range Leader of the Year award, presented by the Rangeland Resources Executive Committee. John was nominated by the Deer Lodge Valley Conservation District, for which he has served on the board of supervisors for more than forty years. John also is a founding member of the Montana Grazing Lands Conservation Initiative and the Rangeland Resources Executive Committee and helped begin the annual Montana Youth Range Camp.

JESSICA DUMKE KASCHUBE '10, Miami, Fla., is the office manager for GableStage, an internationally known theater in South Florida. Previously, Jessica worked with the Bigfork Summer Playhouse and Montana Repertory Theatre as a scenic artist and was a theatrical electrician and a production office assistant

for the Alabama Shakespeare Festival. She resides with her husband, **BRYAN KASCHUBE**, M.F.A. '10.

AMANDA OPITZ '10, Missoula, is the communications coordinator at the YWCA Missoula, managing all internal and external communications to develop essential public and private support, which enables the YWCA to further its mission to eliminate racism, empower women, and promote peace, justice, freedom, and dignity for all.

LIZZY DUFFY '12, Portland, Ore., is the news blogger for Oregon Public Broadcasting. Her blog is available at www.opb.org.

KRISTEN ZADICK '12, Great Falls, is a Fulbright Scholar teaching English at La Escuela Normal Superior



Zadick

de Jalisco, a postsecondary teacher preparatory school in Guadalajara, Mexico. She prepares students to be English teachers in the Mexican educational system and develops classroom materials for the English department. Kristen has been accepted to the UM School of Law and will begin in fall 2014.

ERIK C. ANDERSON '13, Portland, Ore., is the full-time high school sports news producer for the *Oregonian*.

KARI ENEAS '13, Polson, is a full-time wildlife biologist trainee with the wildlife management program of the Confederated Salish and Kootenai Tribes. Kari currently is enrolled in the Climate Academy and plans to obtain a master's degree in wildlife biology from UM.



PHOTO: ST. LOUIS RAMS NEWMAN LOWRANCE

CHASE REYNOLDS '11, St. Peters, Mo., appeared in all sixteen games for the National Football League's St. Louis Rams this past season. Chase is one of the most decorated eight-man football players in Montana history and led the Grizzlies to back-to-back national runner-up finishes.

In Memoriam

We extend sympathy to the families of the following alumni, faculty, and friends. Names without class or degree years include UM alumni, employees, and friends. To be included in "In Memoriam," the UM Office of Alumni Relations requires a newspaper obituary or a letter of notification from the immediate family.

Material for In Memoriam reached our office by Feb. 2, 2014.

1930s

Mary Louise Hay McCarthy '37, Golden, CO
Jean M. Jordan Nelson '37, Sitka, AK
Paul Warren Peters '37, Pasadena, CA
Ellen Laverne Hill Everly '38, Butte
Anthony A. "Tony" Gasperino '38, Spokane, WA
Gladys Kathryn Staffanson Hall Kirk Luticken '38, Redwood City, CA
Paul Arthur Krause '39, Lava Hot Springs, ID
James Edward "Jim" McMahon '39, Hyattsville, MD

1940s

Beatrice M. "Bea" Cook Frost McLaughlin '40, Kalispell
Dorothy Anne Lavonne "Dee" Miller Petersen '40, Green Valley, AZ
Patricia Gibbons Rosenthal '40, Southern Pines, NC
Albert Bruce Weaver '40, Tucson, AZ
Dean Eldon Galles '41, Billings
Jane Lucille Selkirk Iszler '41, Silverton, ID
Grace Elizabeth Wrigley Forrest Molitor Krantz '42, Cottage Grove, OR
Charles William "C. W." "Bill" Leaphart '43, Billings
Mary Ruth Foot Harker '44, Heron
Helen V. LaRue Cason '46, Helena
Opal Louise Replogle Rankin Galt '46, Martinsdale
Anna Vee Mather Brandborg '47, Hamilton
Margaret Marie Garrison Turnquist '47, Midvale, UT
Donald Eugene "Don" Harkins '47, El Paso, TX
Marjorie Rae Karlin Henry '47, Normandy Park, WA
Mary Elizabeth Burke Flax '48, LL.B. '50, Norfolk, VA
Joan Marie Carroll Pulver Lloyd '48, Missoula
Alcyon Martia Carlson Weybret '48, Lodi, CA
Nicholas J. "Nick" Cerovski '49, Lewistown
Forrest Joseph Gerrard '49, Albuquerque, NM